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Safety Instructions

Safety Information

Warnings, Cautions, and Notes

Warnings
must be followed carefully to avoid bodily injury.

Cautions
must be observed to avoid damage to your equipment.

Notes
contain important information and useful tips on the operation of your printer.

Safety precautions

Be sure to follow the precautions carefully to ensure safe, efficient operation:

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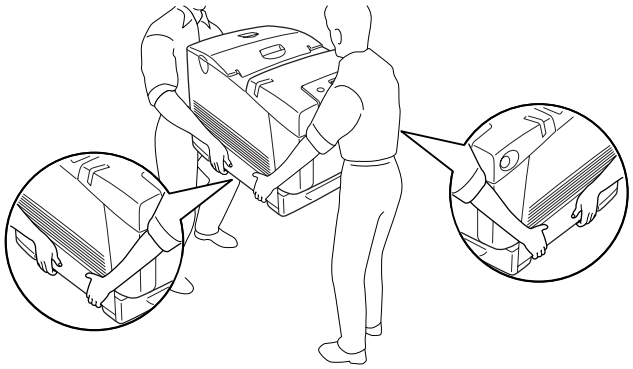
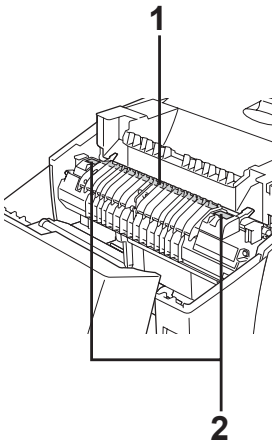
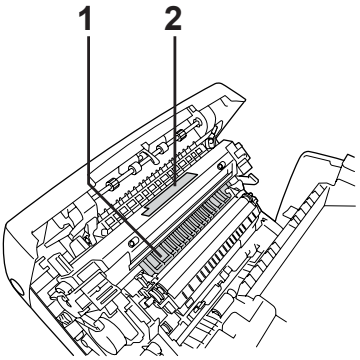
❏ Because the printer weighs approximately 34.6 kg (76.3 lb) with consumable products installed, one person should not lift or carry it. Two people should carry the printer, lifting it by the correct positions as shown below.



❏ Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot. If you must touch one of these areas, wait 30 minutes to allow the heat to subside before doing so.





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1. Do not insert your hand deep into the fuser unit.
2. CAUTION HIGH TEMPERATURE

- ❏ Do not insert your hand deep into the fuser unit as some components are sharp and may cause injury.
- ❏ Avoid touching the components inside the printer unless instructed to do so in this guide.
- ❏ Never force the printer's components into place. Although the printer is designed to be sturdy, rough handling can damage it.
- ❏ When handling a toner cartridge, always place it on a clean, smooth surface.
- ❏ Do not attempt to modify a toner cartridge or take it apart. They cannot be refilled.
- ❏ Do not touch the toner. Keep the toner away from your eyes.
- ❏ Do not dispose of used toner cartridge, photoconductor unit, fuser unit, or transfer unit in fire, as they can explode and cause injury. Dispose of them according to local regulations.
- ❏ If toner is spilled, use a broom and dustpan or a damp cloth with soap and water to clean it up. Because the fine particles can cause a fire or explosion if they come into contact with a spark, do not use a vacuum cleaner.
- ❏ Wait at least one hour before using a toner cartridge after moving it from a cool to a warm environment to prevent damage from condensation.

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- ❏ When removing the photoconductor unit, avoid exposing it to room light for more than five minutes. The unit contains a green-colored light-sensitive drum. Exposure to light can damage the drum, causing dark or light areas to appear on the printed page and reducing the service life of the drum. If you need to keep the unit out of the printer for long periods, cover it with an opaque cloth.

- ❏ Be careful not to scratch the surface of the drum. When you remove the photoconductor unit from the printer, always place the unit on a clean, smooth surface. Avoid touching the drum, since oil from your skin can permanently damage its surface and affect print quality.

- ❏ To get the best print quality, do not store the photoconductor unit in an area subject to direct sunlight, dust, salty air, or corrosive gases (such as ammonia). Avoid locations subject to extreme or rapid changes in temperature or humidity.

- ❏ Be sure to keep consumable components out of the reach of children.

- ❏ Do not leave jammed paper inside the printer. This can cause the printer to overheat.

- ❏ Avoid sharing outlets with other appliances.

- ❏ Use only an outlet that meets the power requirements of this printer.

Important Safety Instructions

Read all of the following instructions before operating your printer:

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When choosing a place and power source for the printer

- ❏ Place the printer near an electrical outlet where you can easily plug in and unplug the power cord.
- ❏ Do not place the printer on an unstable surface.
- ❏ Do not put your printer where the cord will be stepped on.
- ❏ Slots and openings in the cabinet and the back or bottom are provided for ventilation. Do not block or cover them. Do not put the printer on a bed, sofa, rug, or other similar surface or in a built-in installation unless proper ventilation is provided.
- ❏ All interface connectors for this printer are Non-LPS (non-limited power source).
- ❏ Connect your printer to an electrical outlet that meets the power requirements of this printer. Your printer's power requirements are indicated on a label attached to the printer. If you are not sure of the power supply specifications in your area, contact your local power company or consult your dealer.
- ❏ If you are unable to insert the AC plug into the electrical outlet, contact an electrician.
- ❏ Avoid using outlets that other appliances are plugged into.
- ❏ Use the type of power source indicated on the label. If you are not sure of the type of power available, consult your dealer or local power company.
- ❏ If you are unable to insert the plug into the outlet, contact a qualified electrician.

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- ❏ When connecting this product to a computer or other device with a cable, ensure the correct orientation of the connectors. Each connector has only one correct orientation. Inserting a connector in the wrong orientation may damage both devices connected by the cable.

- ❏ If you use an extension cord, make sure that the total of the ampere ratings on the products plugged into the extension cord does not exceed the extension cord ampere rating.

- ❏ Unplug this printer from the wall outlet and refer servicing to a qualified service representative under the following conditions:

  A. When the power cord or plug is damaged or frayed.

  B. If liquid has been spilled into it.

  C. If it has been exposed to rain or water.

  D. If it does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.

  E. If it has been dropped or the cabinet has been damaged.

  F. If it exhibits a distinct change in performance, indicating a need for service.

When using the printer

- ❏ The printer weighs about 34.6 kg (76.3 lb). One person should not attempt to lift or carry the printer. Two people should carry it.

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- ❏ Follow all warnings and instructions marked on the printer.
- ❏ Unplug this printer from the wall outlet before cleaning.
- ❏ Use a well-wrung cloth for cleaning and do not use liquid or aerosol cleaners.
- ❏ Avoid touching the components inside the printer unless instructed to do so in the printer's documentation.
- ❏ Never force printer components into place. Although the printer is designed to be sturdy, rough handling can damage it.
- ❏ Be sure to keep consumables out of the reach of children.
- ❏ Do not use printer in a damp environment.
- ❏ Do not leave jammed paper inside of the printer. This can cause the printer to overheat.
- ❏ Never push objects of any kind through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock.
- ❏ Never spill liquid of any kind on the printer.
- ❏ Except as specifically explained in the printer's documentation, do not attempt to service this product yourself. Opening or removing those covers that are marked **Do Not Remove** may expose you to dangerous voltage points or other risks. Refer all servicing in those compartments to a qualified service representative.
- ❏ Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and may require repair by a qualified service representative.

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ENERGY STAR® compliance

As an ENERGY STAR® Partner, Epson has determined that this product meets the ENERGY STAR ® guidelines for energy efficiency.

The International ENERGY STAR® Office Equipment Program is a voluntary partnership with the computer and office equipment industry to promote the introduction of energy-efficient personal computers, monitors, printers, fax machines, copiers, scanners, and multifunction devices, and in an effort to reduce air pollution caused by power generation. Their standards and logos are uniform among participating nations.

Safety Information

Power cord

Caution:
Be sure the AC power cord meets the relevant local safety standards.
Use only the power cord that comes with this product. Use of the another cord may result in fire or electric shock.
This product's power cord is for use with this product only. Use with other equipment may result in fire or electric shock.

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Laser safety labels

Warning:
The performance of procedures and adjustments other than those specified in the printer's documentation may result in hazardous radiation exposure.
Your printer is a Class 1 laser product as defined in the IEC60825 specifications. The label shown is attached to the back of the printer in countries where required.

Internal laser radiation

Max. Average Radiation Power:	10 mW at laser aperture
Wavelength:	775 to 799 nm

This is a Class III b Laser Diode Assembly that has an invisible laser beam. The printer head unit is NOT A SERVICE ITEM, therefore, the printer head unit should not be opened under any circumstances. An additional laser warning label is affixed to the inside of the printer.

CDRH regulations

For information about the Center for Devices and Radiological Health of the U.S. Food and Drug Administration, see "Standard and approvals" on page 417.

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Ozone safety

Ozone emission

Ozone gas is generated by laser printers as a by-product of the printing process. Ozone is produced only when the printer is printing.

Ozone exposure limit

The recommended exposure limit for ozone is 0.1 parts per million (ppm) expressed as an average time-weighted concentration over an eight (8) hour period.
The Epson laser printer generates less than 0.1 ppm for eight (8) hours of continuous printing.

Minimize the risk

To minimize the risk of exposure to ozone, you should avoid the following conditions:

- ❏ Use of multiple laser printers in a confined area
- ❏ Operation in conditions of extremely low humidity
- ❏ Poor room ventilation
- ❏ Long, continuous printing together with any of the above

Printer location

The printer should be located so that the exhaust gases and heat generated are:

- ❏ Not blown directly into the user's face
- ❏ Vented directly out of the building whenever possible

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Power On/Off Cautions

Do not turn off the printer:

- ❏ After turning on the printer, wait until Ready appears on the LCD panel.
- ❏ While the Ready light is flashing.
- ❏ While the Data light is on or flashing.
- ❏ While printing.

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Chapter 1

Getting to Know Your Printer

Where to Find Information

Setup Guide

Provides you with information on assembling the printer and installing the printer software.

User's Guide (this manual)

Provides you with detailed information on the printer's functions, optional products, maintenance, troubleshooting, and technical specifications.

Network Guide

Provides network administrators with information on both the printer driver and network settings.You need to install this guide from the Network CD-ROM to your computer's hard disk before referring it.

Paper Jam Guide

Provides you with solutions for paper jam problems about your printer you may need to refer to on a regular basis. We recommend printing this guide and keeping it near the printer.

Online Help for printer software

Click Help for detailed information and instructions on the printer software that controls your printer. Online help is automatically installed when you install the printer software.

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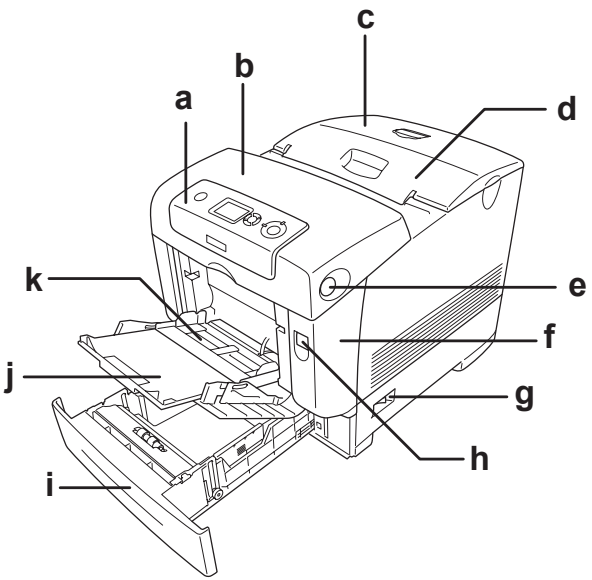
Printer Parts

Front view



a. control panel
b. cover B
c. top cover
d. output tray
e. latch on cover B
f. cover A
g. power switch
h. latch on cover A
i. standard lower paper cassette
j. expansion tray
k. MP tray (Multi-Purpose tray)

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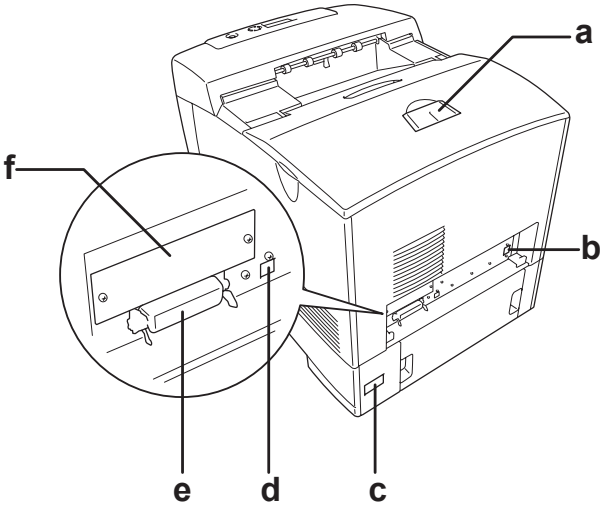
Rear view



a. stopper
b. Ethernet interface connector
c. AC inlet
d. USB interface connector
e. parallel interface connector
f. Type B interface card slot cover

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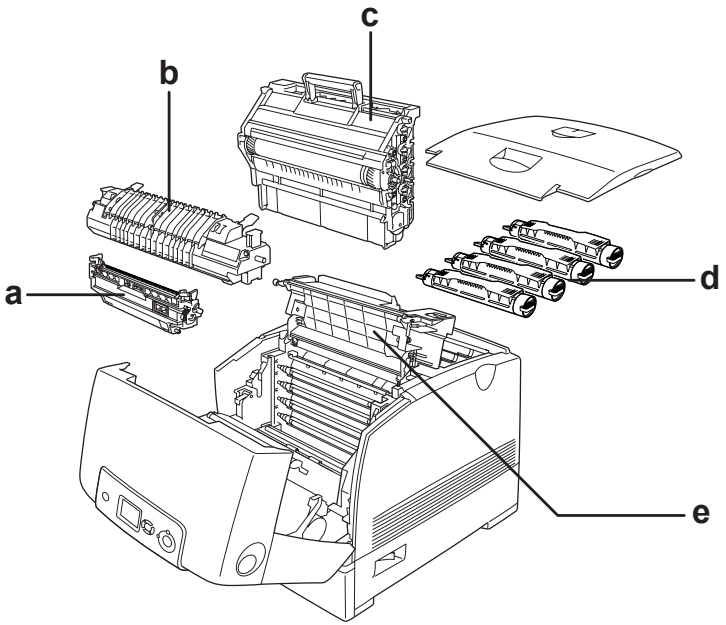
Inside the printer



a. transfer unit
b. fuser unit
c. photoconductor unit
d. toner cartridge
e. cover D

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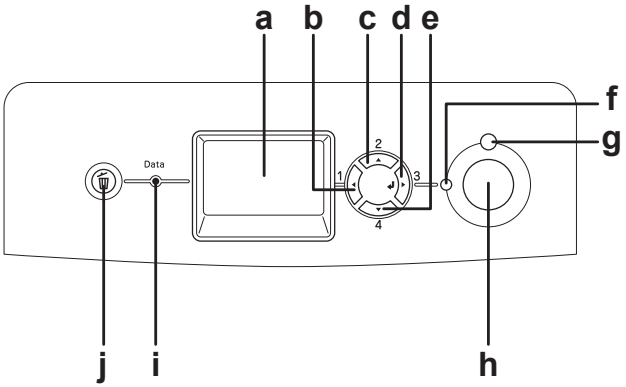
Control panel



a.	LCD panel	Displays printer status messages and control panel menu settings.
b. c. d. e.	Back button Up button Enter button Down button	Use these buttons to access the control panel menus, where you can make printer settings and check the status of consumable products. For instructions on how to use these buttons, see "Using the Control Panel Menus" on page 214.
f.	Ready light (Green)	On when the printer is ready, indicating that the printer is ready to receive and print data. Off when the printer is not ready.
g.	Error light (Red)	On or flashes when an error has occurred.

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h.	Start/Stop button	When the printer is printing, pressing this button stops the printing. When the error light is flashing, pressing this button clears the error and switches the printer to ready status.
i.	Data light (Yellow)	On when print data is stored in the print buffer (the section of printer memory reserved for receiving data) but not yet printed. Flashes when the printer is processing data. Off when no data remains in the print buffer.
j.	Cancel Job button	Press once to cancel the current print job. Press and hold for more than two seconds to delete all jobs from the printer memory.

Options and Consumable Products

Options

You can add to your printer's capabilities by installing any of the following options.

- ❏ 550-sheet Paper Cassette Unit (C12C802251)
  This unit increases paper feeding capacity up to 550 sheets of paper.

- ❏ 1100-sheet Paper Cassette Unit (C12C802261)
  This unit holds two paper cassettes, and increases paper feeding capacity up to 1100 sheets of paper.

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- ❏ Memory Module
  This option expands the printer's memory by allowing you to print complex and graphics-intensive documents. The memory can be installed up to 640 MB for your printer.

  Note:
  Make sure that the DIMM you purchase is compatible with EPSON products. For details, contact the store where you purchased this printer or an EPSON qualified service representative.

- ❏ Hard Disk Drive (C12C824172)
  This option expands the printer's capacity by allowing you to print complex and large print jobs at high speed. This option also enables you to use the Reserve Job function. By using the Reserve Job function, you can store print jobs in the printer's hard disk and print them later directly from the printer's control panel.

- ❏ P5C Emulation Kit (C12C832661)
  The P5C emulation kit provides you with the ability to print documents in the PCL5c printing language with this printer. This optional kit includes the ROM module and printer driver.

Consumable products

The life of the following consumable products is monitored by the printer. The printer lets you know when replacements are needed.

Product name	Product code
Toner Cartridge (Yellow)	0242
Toner Cartridge (Magenta)	0243
Toner Cartridge (Cyan)	0244
Toner Cartridge (Black)	0245
Photoconductor Unit	1109

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Transfer Unit	3022
Fuser Unit (110-120 V)	3020
Fuser Unit (220-240 V)	3021

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Chapter 2

Printer Features and Various Printing Options

Printer Features

The printer comes with a full set of features that contributes to ease of use and consistent, high-quality output. The main features are described below.

High-speed tandem printing engine

Your printer's state-of-the-art tandem engine features 600 MHz image processing and single-pass technology that delivers 25 ppm (pages per minute) at 4800 RIT* color printing and 35 ppm black and white printing on A4 paper.

* Epson AcuLaser Resolution Improvement Technology

High-quality printing

When using the driver provided, your printer delivers 25 ppm (pages per minute) at 4800 RIT color printing and 35 ppm black and white printing on A4 paper. You'll appreciate the professional print quality produced by your printer and its quick processing speed.

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Pre-defined color settings in the printer driver

The printer driver offers many pre-defined settings for color printing, allowing you to optimize print quality for various types of color documents.

For Windows, see "Making the print quality settings" on page 62 for more information.
For Macintosh, see "Making the print quality settings" on page 147 for more information.

Toner save mode

To reduce the amount of toner used in printing documents, you can print rough drafts using the Toner Save mode.

Resolution Improvement Technology and Enhanced MicroGray technology

Resolution Improvement Technology (RITech) is an original Epson printer technology that works by smoothing out the jagged edges of diagonal and curved lines in both text and graphics. Enhanced MicroGray improves the halftone quality of graphics.

Wide variety of fonts

The printer comes with a selection of 84 scalable fonts, and 7 bitmap fonts in ESC/Page mode to provide you with the fonts you need to create professional-looking documents.

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Adobe PostScript 3 Mode

The printer's Adobe PostScript 3 Mode provides you with the ability to print documents formatted for PostScript printers. Seventeen scalable fonts are included. IES (Intelligent Emulation Switch) and SPL (Shared Printer Language) support allow the printer to switch between the PostScript mode and other emulations as print data is received at the printer.

P5C Emulation Mode

The P5C Emulation mode provides you with the ability to print documents in the PCL5c printing language with this printer. Installing this optional P5C Emulation Kit into your printer, this printer driver allows your computer to control the P5C printer.

Various Printing Options

This printer provides you with a variety of different printing options. You can print in various formats, or can print using many different types of paper.

The following explains the procedure for each type of printing. Choose the appropriate one for your printing.

Double-sided printing

"Duplex printing" on page 69 (Windows)

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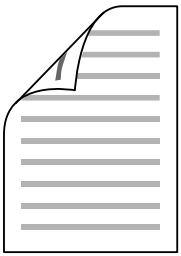
"Duplex printing" on page 163 (Macintosh)



Lets you print on both sides of the paper.

Fit to page printing

"Resizing printouts" on page 73 (Windows)

"Resizing printouts" on page 154 (Macintosh)

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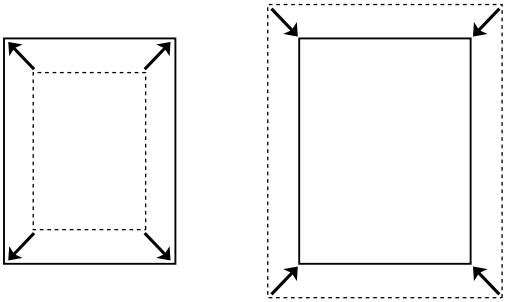
Note:
This function is not available with Mac OS X.

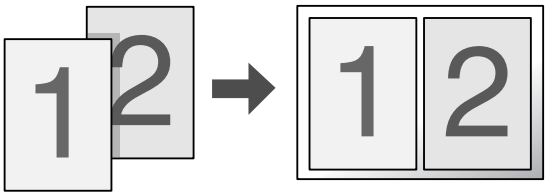


Lets you automatically enlarge or reduce the size of your document to fit the paper size you selected.

Pages per sheet printing

"Modifying the print layout" on page 76 (Windows)

"Modifying the print layout" on page 155 (Macintosh)



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Lets you print two or four pages on a single sheet.

Watermark printing

"Using a watermark" on page 78 (Windows)

"Using a watermark" on page 158 (Macintosh)

Note:
This function is not available with Mac OS X.

Lets you print text or an image as a watermark on your printout. For example, you can put “Confidential” on an important document.

Overlay printing

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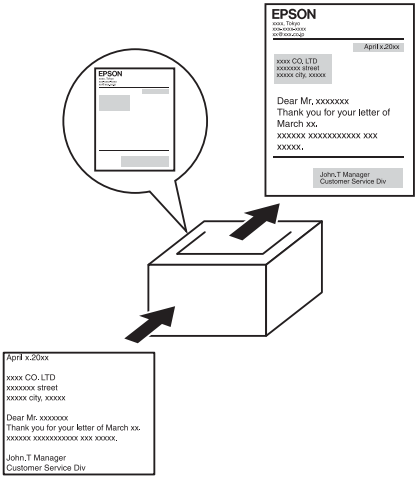
"Using an overlay" on page 81 (Windows)



Lets you prepare standard forms or template on your printout that you can use as overlays when printing other documents.

Note:
The Overlay printing function is not available in the PostScript 3 mode.

Using the Reserve Job function

"Hard Disk Drive" on page 295

"Using the Reserve Job Function" on page 96 (Windows)

"Using the Reserve Job Function" on page 167 (Macintosh)

Lets you print jobs that you stored in the printer's Hard Disk Drive later directly from the printer's control panel.

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Using the HDD form overlay function

"Hard Disk Drive" on page 295

"Using HDD form overlay" on page 87 (Windows)

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Chapter 3

Paper Handling

Paper Sources

This section describes the combinations of paper sources and paper types that you can use.

MP tray

Paper Type	Paper Size	Capacity
Plain paper Weight: 60 to 105 g/m²	A4, A5, B5, Letter (LT), Half-Letter (HLT), Executive (EXE), Government Legal (GLG), Legal (LGL), Government Letter (GLT), F4 Custom-size paper: 88.9 × 139.7 mm minimum 220 × 355.6 mm maximum	Up to 150 sheets (Total thick stack: up to 15 mm)
Envelopes Weight: 75 to 105 g/m²	DL, ISO-B5	Up to 15 mm thick stack
Labels	A4, Letter (LT)	Up to 15 mm thick stack
Thick paper Weight: 106 to 163 g/m²	A4, A5, B5, Letter (LT), Half-Letter (HLT), Executive (EXE), Government Letter (GLT) Custom-size paper: 88.9 × 139.2 mm minimum 220 × 355.6 mm maximum	Up to 15 mm thick stack

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Extra thick paper Weight: 164 to 216 g/m²	A4, A5, B5, Letter (LT), Half-Letter (HLT), Executive (EXE), Government Letter (GLT) Custom-size paper: 88.9 × 139.2 mm minimum 220 × 355.6 mm maximum	Up to 15 mm thick stack
Semi-Thick/EPSON Color Laser Paper Weight: 82 g/m²	A4	Up to 150 sheets (Total thick stack: up to 15 mm)
EPSON Color Laser Transparencies Weight: 140 g/m²	A4, Letter (LT)	Up to 15 mm thick stack

Standard lower paper cassette

Paper Type	Paper Size	Capacity
Plain paper Weight: 60 to 105 g/m²	A4, A5, B5, Letter (LT), Executive (EXE), Legal (LGL), Government Legal (GLG)	Up to 550 sheets (Total thick stack: up to 61 mm)
Semi-Thick/EPSON Color Laser Paper Weight: 82 g/m²	A4	

550-sheet/1100-sheet Paper Cassette Unit

Paper Type	Paper Size	Capacity
Plain paper Weight: 60 to 105 g/m²	A4, A5, B5, Letter (LT), Executive (EXE), Legal (LGL), Government Legal (GLG)	Up to 550 sheets in each cassette (Total thick stack: up to 61 mm in each casette)
Semi-Thick/EPSON Color Laser Paper Weight: 82 g/m²	A4	

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Selecting a paper source

You can specify a paper source manually, or set the printer to select the paper source automatically.

Manual selection

You can use the printer driver or the printer's control panel to select a paper source manually.
To access the printer driver, for Windows, see "Accessing the printer driver" on page 61, or for Macintosh, see "Accessing the printer driver" on page 146.
And to use the printer's control panel, see "Using the Control Panel Menus" on page 214.

Using the printer driver:

- **For Windows:**
  Access the printer driver, click the Basic Settings tab, and select the paper source that you want to use from the Paper Source list. Then click OK.

- **For Macintosh:**
  Access the printer driver, select Printer Settings from the drop-down list and click the Basic Settings tab (for Mac OS X), or open the Basic Settings dialog box (for Mac OS 9). Then, select the paper source that you want to use from the Paper Source list and click OK.

Using the printer's control panel:

Access the control panel's `Setup Menu`, then select `Paper Source` and specify the paper source you want to use.

Auto selection

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You can use the printer driver or the printer's control panel to select a paper source containing the appropriate size of paper automatically.
To access the printer driver, for Windows, see "Accessing the printer driver" on page 61, or for Macintosh, see "Accessing the printer driver" on page 146.
And to use the printer's control panel, see "Using the Control Panel Menus" on page 214.

Using the printer driver:

- **For Windows:**
  Access the printer driver, click the Basic Settings tab, and select Auto Selection as the paper source. Then click OK.

- **For Macintosh:**
  Access the printer driver, select Printer Settings from the drop-down list and click the Basic Settings tab (for Mac OS X), or open the Basic Settings dialog box (for Mac OS 9). Then, select Auto Selection as the paper source and click OK.

The printer will search for a paper source containing the specified paper size in the following order.

Standard configuration:

MP tray
Lower Cassette 1

With 550-sheet Paper Cassette Unit installed:

MP tray
Lower Cassette 1
Lower Cassette 2

With 1100-sheet Paper Cassette Unit installed:

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MP tray
Lower Cassette 1
Lower Cassette 2
Lower Cassette 3

With 550-sheet Paper Cassette Unit and 1100-sheet Paper Cassette Unit installed:

MP tray
Lower Cassette 1
Lower Cassette 2
Lower Cassette 3
Lower Cassette 4

Note:

- ❏ *If you make paper size settings or paper source settings in your application, these settings may override the printer driver settings.*
- ❏ *If you select an envelope for the Paper Size setting, it can be fed only from the MP tray regardless of the Paper Source setting.*
- ❏ *You can change the priority of the MP tray by using the* `MP Mode` *setting in the control panel's* `Setup Menu`*. For details, see "Setup Menu" on page 224.*

Using the printer's control panel:

Access the control panel's `Setup Menu`, and select Paper Source, then select Auto.

Loading Paper

This section describes how to load paper. If you use special media such as transparencies or envelopes, see also "Printing on Special Media" on page 53.

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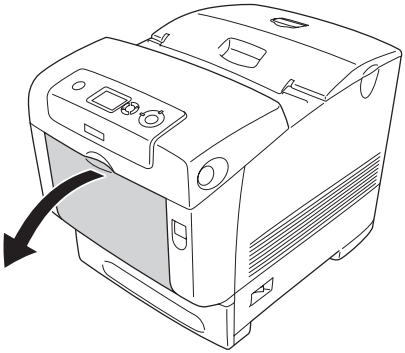
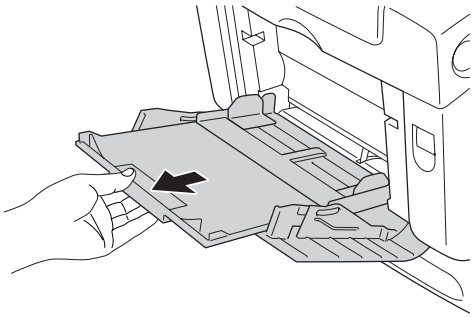
MP tray

Follow the steps below to load paper into the MP tray.

1. Open the MP tray.



2. Pull out the expansion tray on the MP tray to accommodate the size of the paper you want to load.



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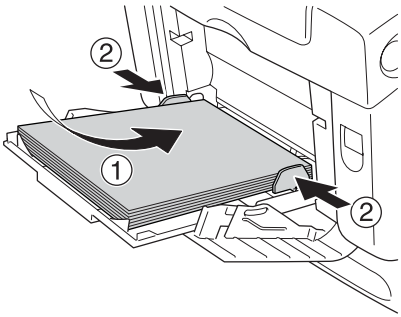
3. Load a stack of the desired paper with the printable surface down, then slide the guides against the sides of the stack to get a snug fit.



Note:

- ❏ *When loading the media, insert the short edge first.*
- ❏ *When printing on DL size envelopes, load them with the long edge first.*
- ❏ *Do not load media that exceeds the maximum stack height.*
- ❏ *After loading paper, set the* `MP Tray Size` *setting to match the loaded paper size on the control panel.*
- ❏ *To print on the back side of previously printed paper, use the MP tray. The duplex unit cannot be used for this purpose.*
- ❏ *When loading LT or LGL size paper, slide the guides to the position marked 8.5".*

Standard lower paper cassette and optional paper cassette unit

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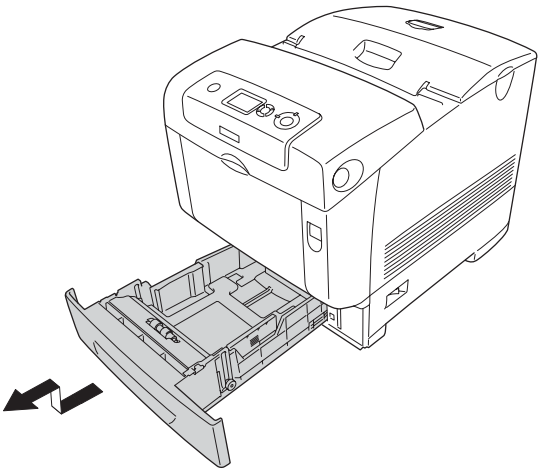
The paper sizes and types supported by the optional paper cassette units are the same as the standard lower cassette unit. For more information, see "550-sheet/1100-sheet Paper Cassette Unit" on page 42.

The paper-loading procedure is the same for the standard lower cassette and the optional paper cassette unit.

In addition to plain paper, you can also use special media such as EPSON Color Laser Paper in the paper cassettes.

Follow these steps to load paper into the standard and optional paper cassette units. The illustrations show the standard lower cassette.

1. Pull the paper cassette out until it stops. Then lift up the front of the cassette and pull it out.



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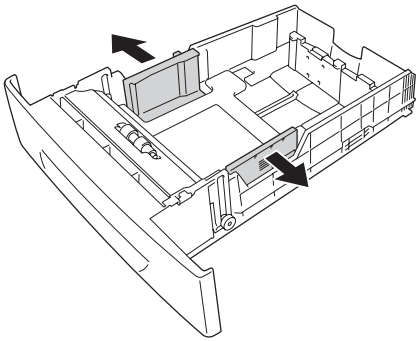
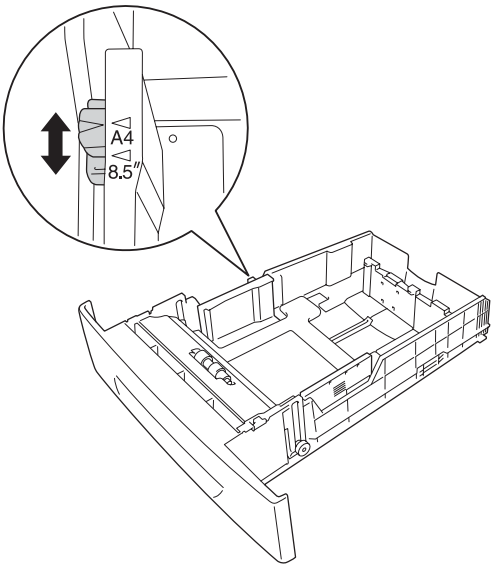
2. Slide the left and right paper guides to accommodate the paper you are loading.



Note:
When you use A4 or Letter (LT) size paper, adjust the width by moving the adjuster on the side of the cassette. When using Letter (LT), Legal (LGL), or Government Legal (GLG) size paper, set the adjuster to the arrow marked 8.5".



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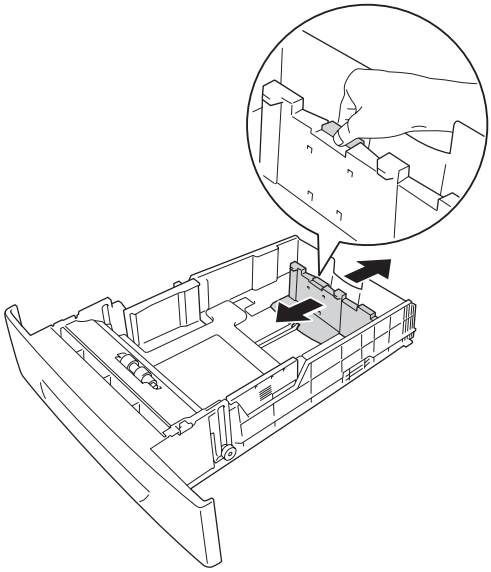
3. Pinch the knob and rear paper guide together, then slide the guide to the position appropriate for the size of paper you want to load.



Note:

❏ *Load the paper after aligning the edges of the paper carefully.*

❏ *Do not load paper that exceeds the maximum stack height.*

4. To prevent the sheets from sticking together, fan a stack of paper. Then tap the edge on a firm surface to line it up.

Note:

If your printouts are curled or do not stack properly when using plain paper, try turning the stack over and reloading it.

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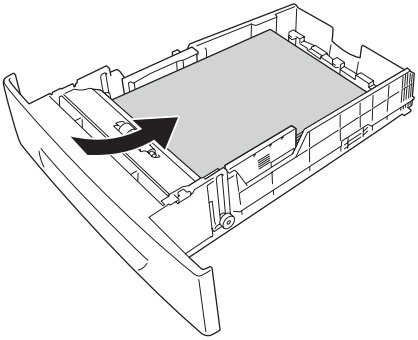
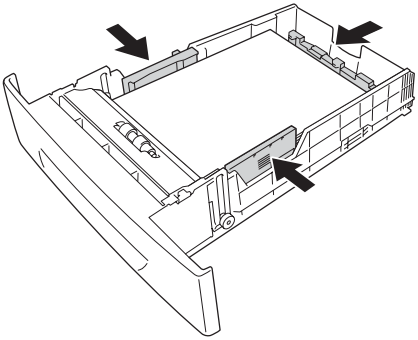
5. Insert the stack into the cassette, lining it up with both the front and left sides of the cassette, with the printable surface up.



6. Slide the paper guides to fit the paper you are loading.



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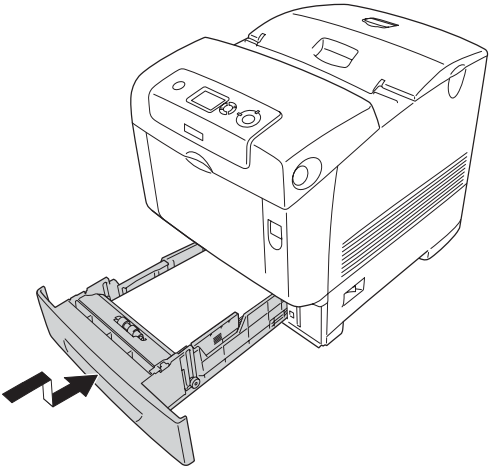
7. Reinsert the cassette into the unit.



Note:

- ❏ *After loading paper, set the* `LC 1 Size` *through* `LC 4 Size` *and* `LC 1 Type` *through* `LC 4 Type` *settings on the control panel to match the loaded paper size and type.*

- ❏ *If you have installed and loaded paper into the optional paper cassette unit, set the setting for the cassette that you are using.*

Output tray

The output tray is located on the top of the printer. Since printouts are output face-down, this tray is also referred to as the face-down tray. Raise the stopper to prevent your printouts from slipping off the printer.

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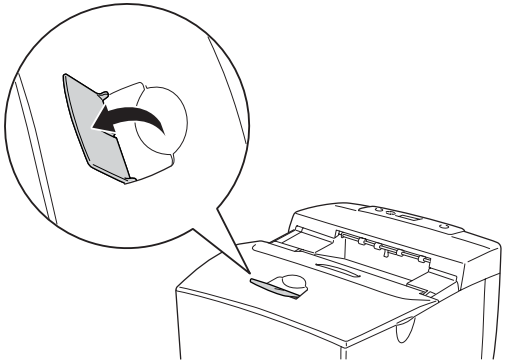
Note:
This tray can hold up to 250 sheets. The printer automatically stops printing if the total thickness of the printout reaches 36 mm.



Printing on Special Media

You can print on special media which include Epson paper such as the following.

Note:
Since the quality of any particular brand or type of media may be changed by the manufacturer at any time, Epson cannot guarantee the quality of any type of media. Always test samples of media stock before purchasing large quantities or printing large jobs.

EPSON Color Laser Paper

When loading EPSON Color Laser Paper, you should make paper settings as shown below:

❏ Make settings on the Basic Settings in the printer driver.

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Paper Size: A4

Paper Source: MP Tray (up to 150 sheets or up to 15 mm thick stack)
Lower Cassette (up to 550 sheets or up to 61 mm thick stack in each cassette)

Paper Type: Semi-Thick

❏ You can also make these settings on the Tray Menu in the control panel. See "Tray Menu" on page 219.

EPSON Color Laser Transparencies

Epson recommends the use of EPSON Color Laser Transparencies.

Note:
Duplex printing is not available for transparencies.

Transparencies can be loaded into the MP tray only. When using transparencies, you should make paper settings as shown below:

❏ Make settings on the Basic Settings in the printer driver.

Paper Size: A4 or LT

Paper Source: MP Tray (up to 15 mm thick stack)

Paper Type: Transparency

❏ You can also make these settings on the Tray Menu in the control panel. See "Tray Menu" on page 219.

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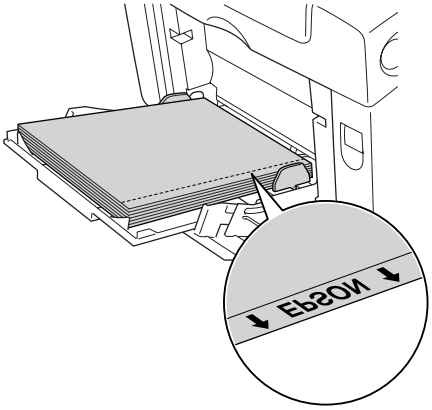
❏ When the Paper Type setting in the printer driver is set to Transparency, do not load any other type of paper except transparencies.

Please note the following when handling this media:

❏ Hold each sheet by its edges, as oil from your fingers may transfer to the surface and damage the printable surface of the sheet. The Epson logo appears on the printable side.

❏ When loading transparencies in the MP tray, insert the short edge first as shown below.



❏ If transparencies are loaded incorrectly, the message Check Transparency appears on the LCD panel. Remove the jammed transparencies from the printer. To clear the jam, see "When transparencies are jammed at the MP tray" on page 377.

Caution:
Sheets that have just been printed on may be hot.

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Envelopes

The print quality of envelopes may be irregular because different parts of an envelope have different thicknesses. Print one or two envelopes to check the print quality.

Caution:
Do not use window envelopes. The plastic on most window envelopes will melt when it comes into contact with the fuser.

Note:

- ❏ *Depending on the quality of envelopes, the printing environment, or the printing procedure, envelopes might be wrinkled. Make a trial print run before you print on a lot of envelopes.*
- ❏ *Duplex printing is not available for envelopes.*

When loading envelopes, you should make paper settings as shown below:

- ❏ Make settings on the Basic Settings in the printer driver.

  Paper Size: IB5 or DL

  Paper Source: MP Tray (up to 15 mm thick stack)

- ❏ You can also make these settings on the Tray Menu in the control panel. See "Tray Menu" on page 219.

Please note the following when handling this media.

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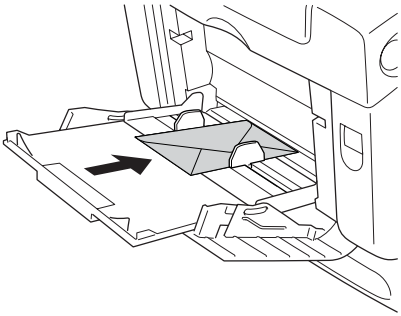
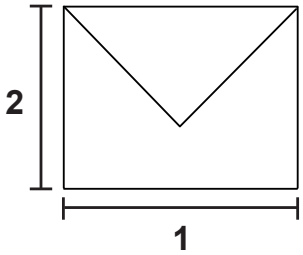
❏ Load envelopes with the short edge first as shown below.



❏ When printing on DL size envelopes, load them with the long edge first.

❏ Do not use an envelope that has glue or tape on it.

Caution:
Make sure that the minimum size of envelopes meets the following size requirements:



1. Minimum length of a long edge: 176 mm
2. Minimum length of a short edge: 110 mm

Labels

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You can load up to 15 mm thickness of labels into the MP tray at a time. However, you may need to feed some labels one sheet at a time, or load them manually.

Note:

- ❏ *Duplex printing is not available for labels.*
- ❏ *Depending on the quality of labels, the printing environment, or the printing procedure, labels might be wrinkled. Make a trial print run before you print on a lot of labels.*

When loading labels, you should make paper settings as shown below:

- ❏ Make settings on the Basic Settings in the printer driver.

  Paper Size: A4 or LT

  Paper Source: MP Tray (up to 15 mm thick stack)

  Paper Type: Labels

- ❏ You can also make these settings on the `Tray Menu` in the control panel. See "Tray Menu" on page 219.

Note:

- ❏ *You should only use labels designed for laser printers or plain-paper copiers.*
- ❏ *To prevent the label adhesive from coming into contact with printer parts, always use labels that completely cover the backing sheet, with no gaps between the individual labels.*
- ❏ *Press a sheet of paper on top of each sheet of labels. If the paper sticks, do not use those labels in your printer.*
- ❏ *You may have to make the setting* `Thick*` *for* `Paper Type` *in the* `Setup Menu`.
  ** When using especially thick labels, set* `Paper Type` *to* `ExtraThk`.

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Thick paper and extra thick paper

You can load thick paper (106 to 163 g/m²) or extra thick paper (164 to 216 g/m²) into the MP tray.

When loading thick or extra thick paper, you should make paper settings as shown below:

❏ Make settings on the Basic Settings in the printer driver.

Paper Size: A4, A5, B5, LT, HLT, EXE, GLT

Paper Source: MP Tray (up to 15 mm thick stack)

Paper Type: Thick or Extra Thick

Note:
When using extra thick paper, you cannot do duplex printing automatically. When you want to do duplex printing with extra thick paper, set the Paper Type setting on printer driver to Extra Thick (Back)*, then do the duplex printing manually.*

❏ You can also make these settings on the `Tray Menu` in the control panel. See "Tray Menu" on page 219.

Loading a custom paper size

You can load non-standard size paper (88.9 × 139.7 mm to 220 × 355.6 mm) into the MP tray.

When loading a custom paper size, you should make paper settings as shown below:

❏ Make settings on the Basic Settings in the printer driver.

Paper Size: User Defined Size

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Paper Source: MP Tray (up to 15 mm thick stack)

Paper Type: Plain, Semi-Thick, Thick or Extra Thick

Note:

- ❏ *For Windows, access the printer driver, then select* User-Defined Size *from the Paper Size list on the* Basic Settings *tab. In the User Defined Paper Size dialog box, adjust the Paper Width, Paper Length, and Unit settings to match your custom paper. Then click* OK *and your custom paper size will be saved.*

- ❏ *For Macintosh, access the printer driver, click* Custom Size *in the Paper Setting dialog box. Then click* New*, adjust the Paper Width, Paper Length, and Margin settings to match your custom paper. Then enter the setting's name, and click* OK *to save your custom paper size.*

- ❏ You can also make these settings on the `Tray Menu` in the control panel. See "Tray Menu" on page 219.

- ❏ If you cannot use the printer driver as explained above, make this setting at the printer by accessing the control panel's `Printing Menu` and selecting `CTM` (custom) as the `Page Size` setting.

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Chapter 4

Using the Printer Software with Windows

About the Printer Software

The printer driver lets you choose from a wide variety of settings to get the best results from your printer. EPSON Status Monitor lets you check the status of your printer.
See "Monitoring Your Printer Using EPSON Status Monitor" on page 103 for more information.

Accessing the printer driver

You can access the printer driver directly from any application programs, from your Windows operating system.

The printer settings made from many Windows applications override the setting made when the printer driver is accessed from the operating system, so you should access the printer driver from your application to make sure that you get the result you want.

From the application

To access the printer driver, click the Print or Page Setup from the File menu. You also need to click Setup, Options, Properties, or a combination of these buttons.

Windows XP or Server 2003 users

To access the printer driver, click Start, click Printers and Faxes, then click Printers. Right-click your printer's icon, then click Printing Preferences.

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Windows Me or 98 users

To access the printer driver, click Start, point to Settings, then click Printers. Right-click your printer's icon, then click Properties.

Windows 2000 users

To access the printer driver, click Start, point to Settings, then click Printers. Right-click your printer's icon, then click Printing Preferences.

Note:
The printer driver's online help provides details on printer driver settings.

Making Changes to Printer Settings

Making the print quality settings

You can change the print quality of printouts through settings in the printer driver. With the printer driver, you can make the print settings by choosing from a list of predefined settings, or customizing the settings.

Choosing the print quality by using the Automatic setting

You can change the print quality of printouts to favor speed or detail. There are five quality modes for the color printing mode and three for the black-and-white printing mode.

When Automatic is selected on the Basic Settings tab, the printer driver takes care of all detailed settings according to the color setting you select. Print quality and color are the only settings you have to make. You can change other settings such as paper size or orientation in most applications.

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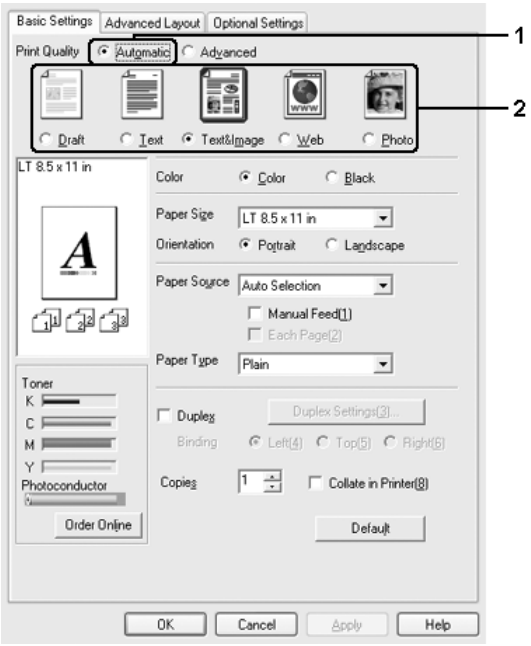
Note:
The printer driver's online help provides details on printer driver settings.

1. Click the Basic Settings tab.

2. Click Automatic, then choose desired printing quality.



3. Click OK to apply the settings.

The printer driver provides the following quality modes.

Color

Draft, Text, Text&Image, Web, Photo

Monochrome

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Draft, Text&Image, Photo

Note:
If printing is unsuccessful or a memory-related error message appears, selecting a different print quality may allow printing to proceed.

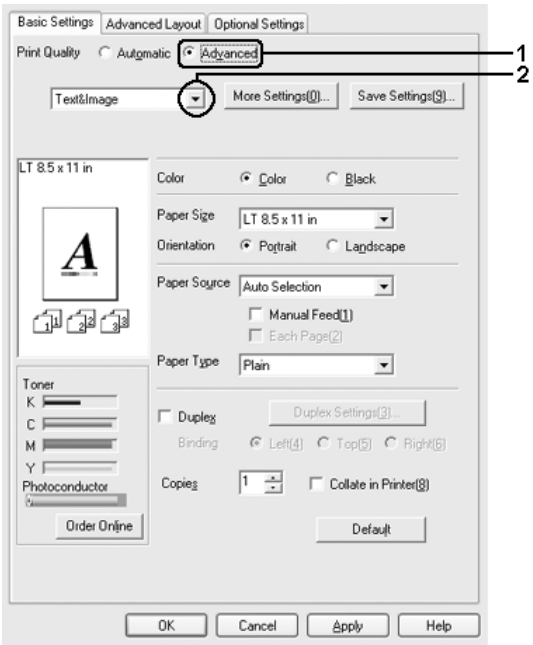
Using the predefined settings

The predefined settings are provided to help you optimize print settings for a particular kind of printout, such as presentation documents or images taken by a video or digital camera.

Follow the steps below to use the predefined settings.

1. Click the Basic Settings tab.

2. Select Advanced. You will find the predefined settings in the list below of Automatic.



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Note:
This screen may vary depending on your operating system version.

3. Select the most appropriate setting from the list according to the type of document or image you want to print.

When you choose a predefined setting, other settings such as Printing Mode, Resolution, Screen, and Color Management are set automatically. Changes are shown in the current settings list on the Setting Information dialog box that appears by pressing the Setting Info. button on the Optional Settings tab.

This printer driver provides the following predefined settings:

Draft

Suitable for printing inexpensive drafts.

Text

Suitable for printing documents that include mainly text.

Text & Image

Suitable for printing documents that include text and images.

Photo

Suitable for printing photos.

Web

Suitable for printing web screens that include many icons, symbols, and colored text. This setting is effective for screens that include full color, 24, or 32 bit images. It is not effective for screens that include only illustrations, graphs, and text, and do not include any images.

Text/Graph

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Suitable for printing documents that include text and graphs, such as presentation documents.

Graphic/CAD

Suitable for printing graphics and charts.

PhotoEnhance

Suitable for printing video captures, images taken with a digital camera, or scanned images. EPSON PhotoEnhance automatically adjusts the contrast, saturation, and brightness of the original image data to produce sharper, more vivid color printouts. This setting does not affect your original image data.

ICM

ICM stands for Image Color Matching. This feature automatically adjusts printout colors to match colors on your screen.

sRGB

When using equipment which supports sRGB, the printer performs Image Color Matching with these pieces of equipment before printing. To confirm that your equipment supports sRGB, contact your equipment dealer.

Advanced Text/Graph

Suitable for printing high-quality presentation documents that include text and graphs.

Advanced Graphic/CAD

Suitable for printing high-quality graphs, charts, and photos.

Advanced Photo

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Suitable for printing high-quality scanned photos and digitally-captured images.

Customizing print settings

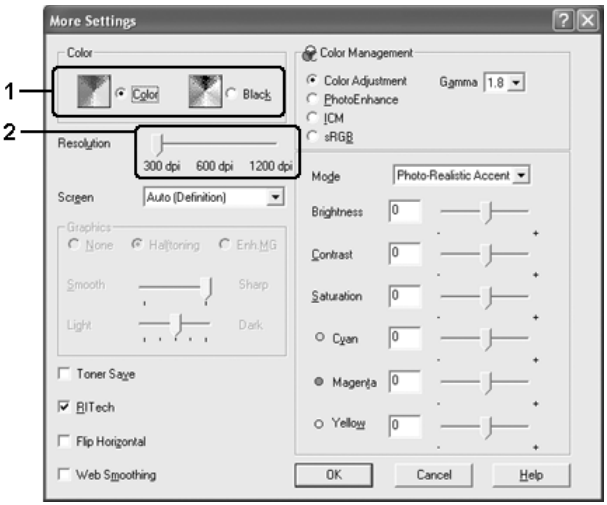
If you need to change detailed settings, make the settings manually.

Follow the steps below to customize your print settings.

1. Click the Basic Settings tab.

2. Click Advanced, then click More Settings.

3. Choose Color or Black as the Color setting, then choose desired printing resolution with the Resolution slider bar.



Note:

❏ *This screen may vary depending on your operating system version.*

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- ❏ *When making the other settings, see online help for details on each setting.*

- ❏ *The* Web Smoothing *check box is not available when* PhotoEnhance *is selected. Note this setting is effective for screens that include full color, 24, or 32 bit images. It is not effective for screens that include only illustrations, graphs, and text, and do not include any images.*

4. Click OK to apply the settings and return to the Basic Settings tab.

Saving your settings

To save your custom settings, click Advanced, then click Save Settings on the Basic Settings tab. The Custom Settings dialog box appears.

Type a name for your custom settings in the Name box, then click Save. Your settings will appear in the list below of Automatic on the Basic Settings tab.

Note:

- ❏ *You cannot use a predefined setting name for your custom settings.*

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❏ *To delete a custom setting, click* Advanced, *click* Save Settings *on the* Basic Settings *tab, select the setting in the Custom Settings dialog box, then click* Delete.

❏ *You cannot delete predefined settings.*

If you change any setting in the More Settings dialog box when one of your custom settings is selected in the Advanced Settings list on the Basic Settings tab, the setting selected in the list changes to Custom Settings. The custom setting that was previously selected is not affected by this change. To return to your custom setting, simply reselect it from the current settings list.

Duplex printing

Duplex printing prints on both sides of the paper. When printing for binding, the binding edge can be specified as required to produce the desired page order.

As an ENERGY STAR® partner, Epson recommends the use of the double-sided printing function. Refer to ENERGY STAR® Compliance for more information on the ENERGY STAR® program.

Printing with the Duplex Unit

Follow the steps below to print with the Duplex Unit.

1. Click the Basic Settings tab.

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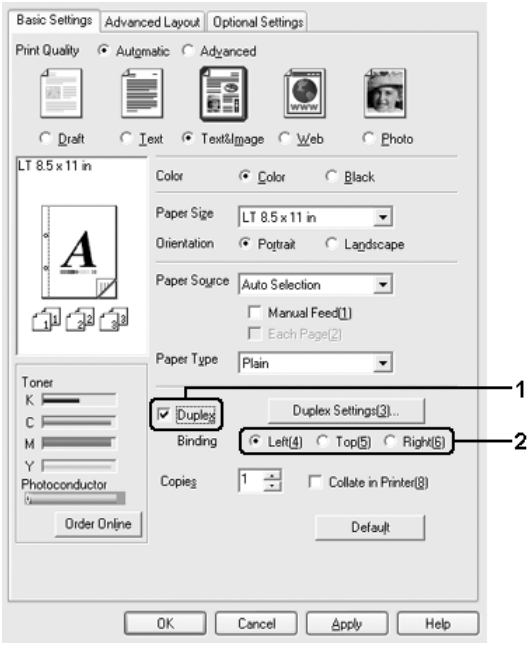
2. Select the Duplex check box, then select Left, Top, or Right as the Binding position.



3. Click Duplex Settings to open the Duplex Settings dialog box.

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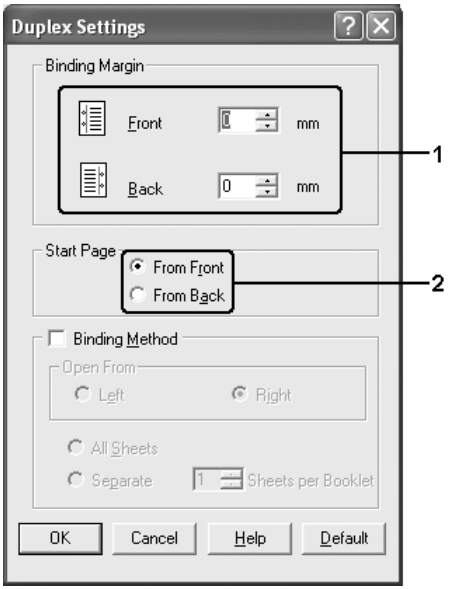
4. Specify the Binding Margin for the front and back sides of the paper, then select whether the front or back side of the paper is to be printed as the Start Page.



5. When printing for binding as a booklet, select the Binding Method check box and make appropriate settings. For details about each setting, see online help.

6. Click OK to apply the settings and return to the Basic Settings tab.

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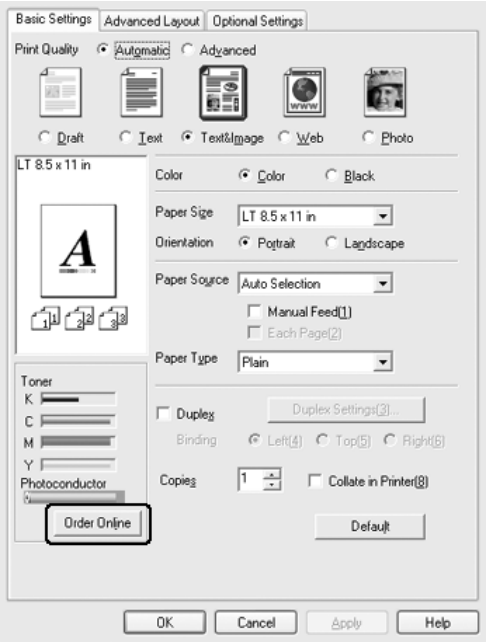
Ordering Consumables

To order consumables online, click the Order Online button on the Basic Settings tab. See "Order Online" on page 118 for details.



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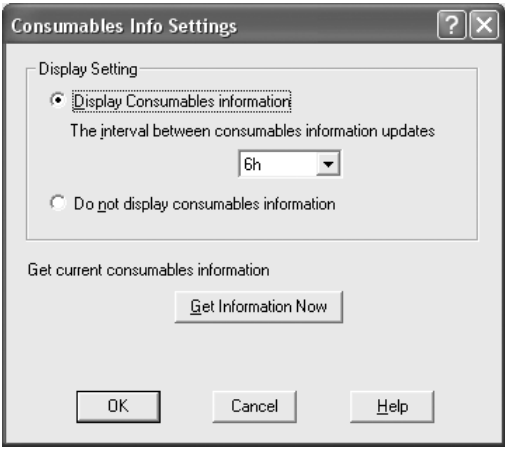
Note:
The amount of toners remaining and the expected service life of the photoconductor are displayed on the Basic Settings *tab when EPSON Status Monitor is installed. You can set the interval of the remaining consumables on the Consumables Info Settings dialog box that appears by clicking the* Consumables Info Settings *button on the* Optional Settings *tab.*



Resizing printouts

You can have your document enlarged or reduced during printing.

To automatically resize pages to fit the output paper

1. Click the Advanced Layout tab.

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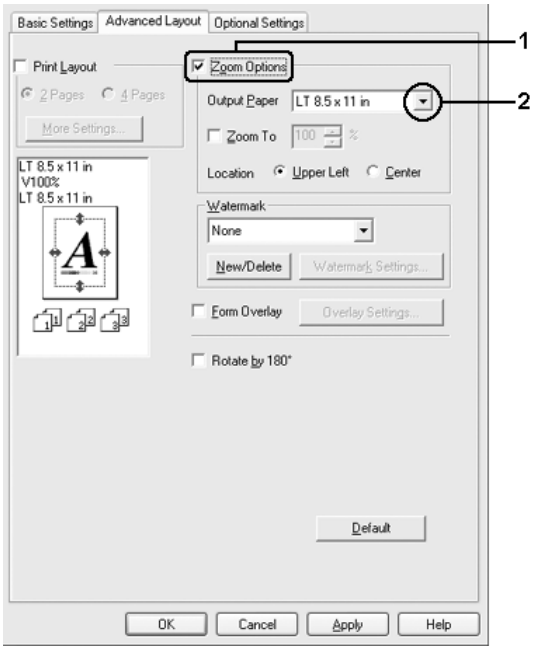
2. Select the Zoom Options check box, then select the desired paper size from the Output Paper drop-down list. The page will be printed to fit on the paper you have selected.



3. Select Upper Left (to print reduced page image at upper left corner of the paper) or Center (to print reduced page image with centering) for Location setting.

4. Click OK to apply the settings.

Resizing pages by a specified percentage

1. Click the Advanced Layout tab.

2. Select the Zoom Options check box.

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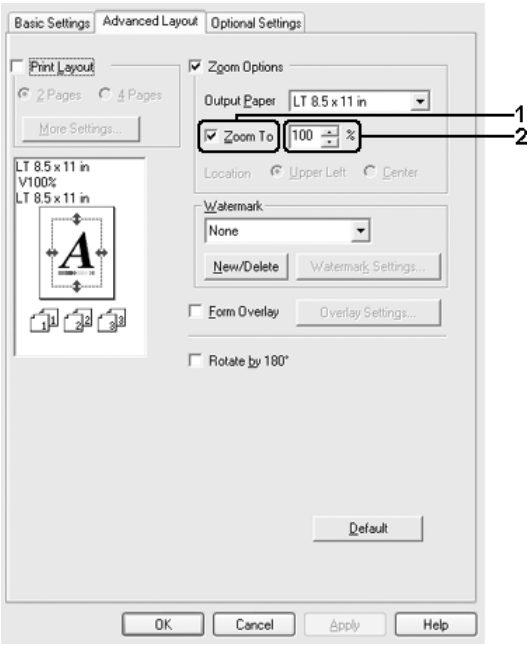
3. Select the Zoom To check box, then specify the magnification percentage in the box.



Note:
The percentage can be set between 50% and 200% in 1% increments.

4. Click OK to apply the settings.

If necessary, select the paper size to be printed from the Output Paper drop-down list.

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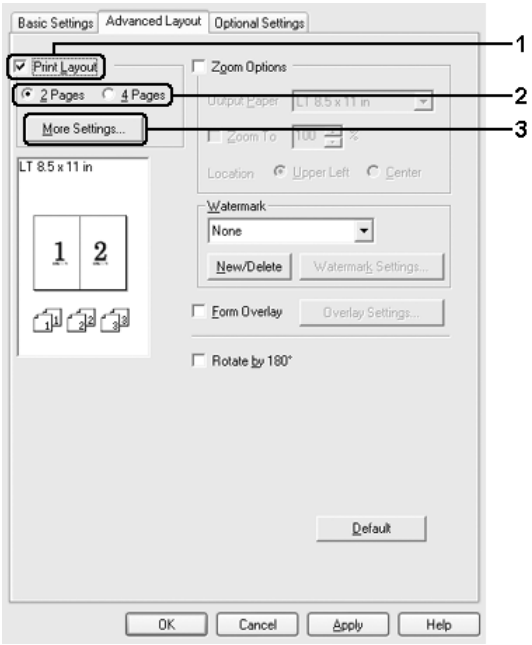
Modifying the print layout

Your printer can print either two or four pages onto a single page and specifies the printing order, automatically resizing each page to fit the specified paper size. You can also choose to print documents surrounded by a frame.

1. Click the Advanced Layout tab.

2. Select the Print Layout check box and the number of pages you want to print on one sheet of paper. Then click More Settings. The Print Layout Settings dialog box appears.



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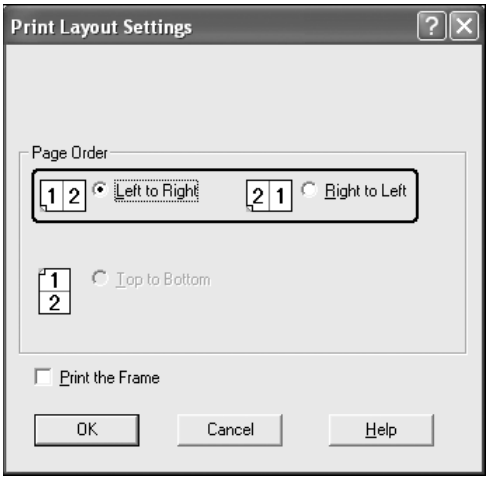
3. Select the Page Order in which the pages are printed on each sheet.



4. Select the Print the Frame check box when you want to print the pages surrounded by a frame.

   Note:
   The Page Order choices depend on the number of pages selected above, and the paper orientation (Portrait or Landscape) selected on the Basic Settings *tab.*

5. Click OK to apply the settings and return to the Advanced Layout tab.

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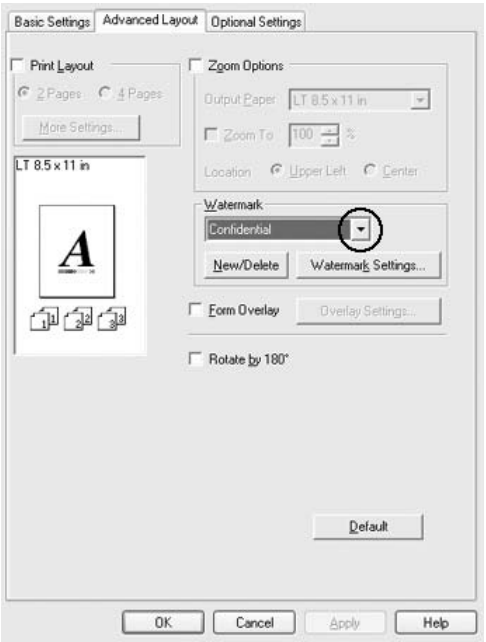
Using a watermark

Follow the steps below to use a watermark on your document. On the Advanced Layout tab or Watermark dialog box, you can select from a list of predefined watermarks, or you can make an original watermark with text or a bitmap. The Watermark dialog box also allows you to make a variety of detailed watermark settings. For example, you can select the size, intensity, and position of your watermark.

1. Click the Advanced Layout tab.

2. Select a watermark that you want to use from the Watermark drop-down list. If you want to make detailed settings, click Watermark Settings. The Watermark dialog box appears.



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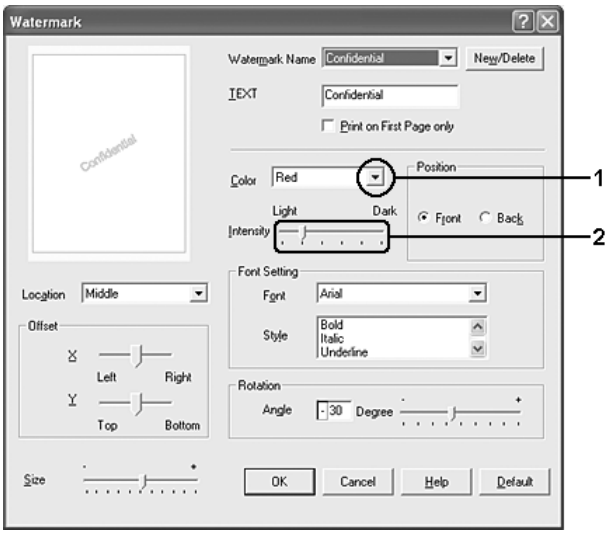
3. Select the color from the Color drop-down list, then adjust the image intensity of the watermark with the Intensity slider bar.



4. Select Front (to print the watermark in the foreground of the document) or Back (to print the watermark in the background of the document) for the Position setting.

5. Select the location on the page where you want to print the watermark from the Location drop-down list.

6. Adjust the X (horizontal) or Y (vertical) Offset position.

7. Adjust the size of the watermark with the Size slider bar.

8. Click OK to apply the settings and return to the Advanced Layout tab.

Making a new watermark

You can make a new watermark as follows:

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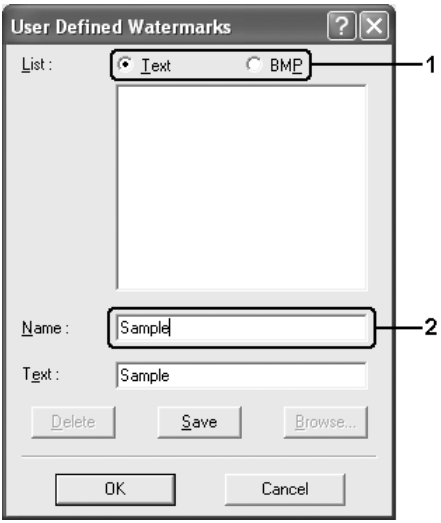
1. Click the Advanced Layout tab.

2. Click New/Delete. The User Defined Watermarks dialog box appears.

   Note:
   The User Defined Watermarks dialog box also appears by clicking New/Delete *in the Watermark dialog box.*

3. Select Text or BMP and type a name for the new watermark in the Name box.



   Note:
   This screen appears when you select Text.

4. If you select Text, type the watermark text in the Text box. If you select BMP, click Browse, select the BMP file you want to use, then click OK.

5. Click Save. Your watermark will appear in the List box.

6. Click OK to apply the new watermark settings.

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Note:
You can register up to 10 watermarks.

Using an overlay

The Overlay Settings dialog box allows you to prepare standard forms, or templates, that you can use as overlays when printing other documents. This feature can be useful for creating corporate letterheads or invoices.

Note:
The overlay function is available only when High Quality (Printer) *is selected for the Printing Mode in the Extended Settings dialog box from the* Optional Settings *tab.*

Creating an overlay

Follow the steps below to create and save a form overlay file.

1. Open your application and create the file that you want to use as an overlay.

2. When the file is ready to be saved as an overlay, choose Print or Print Setup from the File menu of your application, then click Printer, Setup, Options, Properties, or a combination of these buttons, depending on your application.

3. Click the Advanced Layout tab.

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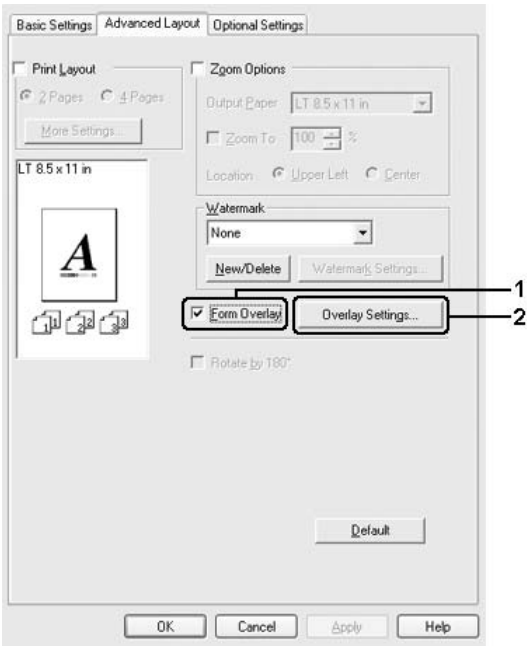
4. Select the Form Overlay check box, then click Overlay Settings. The Overlay Settings dialog box appears.



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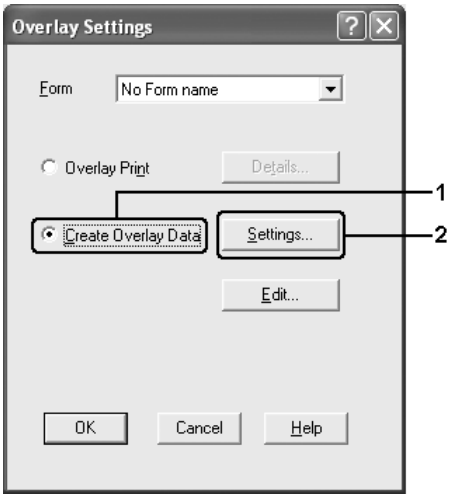
5. Select Create Overlay Data, then click Settings. The Form Settings dialog box appears.



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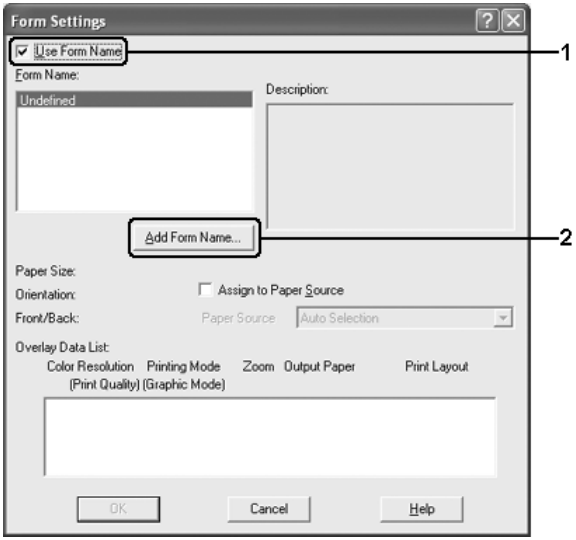
6. Select the Use Form Name check box, then click Add Form Name. The Add Form dialog box appears.



Note:
If the Assign to Paper Source *check box is selected, the form name is displayed in the Paper Source drop-down list on the* Basic Settings *tab.*

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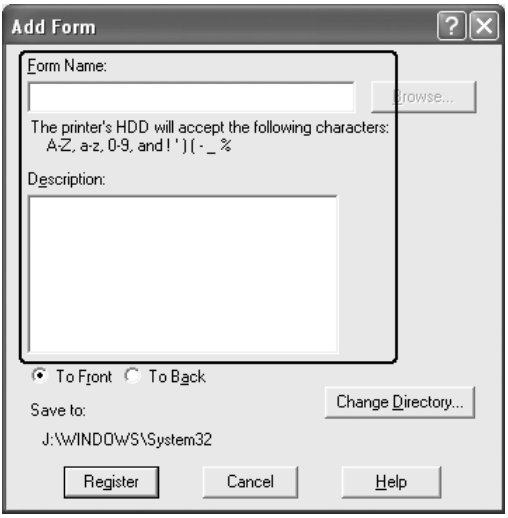
7. Type the form name in the Form Name box and its description in the Description box.



8. Select To Front or To Back to specify whether the overlay will be printed as background or foreground of the document.

9. Click Register to apply the settings and return to Form settings dialog box.

10. Click OK in the Form Settings dialog box.

11. Click OK in the Overlay Settings dialog box.

12. Print the file saved as overlay data. It is possible to save any kind of file as an overlay. The overlay data is created.

Printing with an overlay

Follow the steps below to print a document with overlay data.

1. Open the file to print with overlay data.

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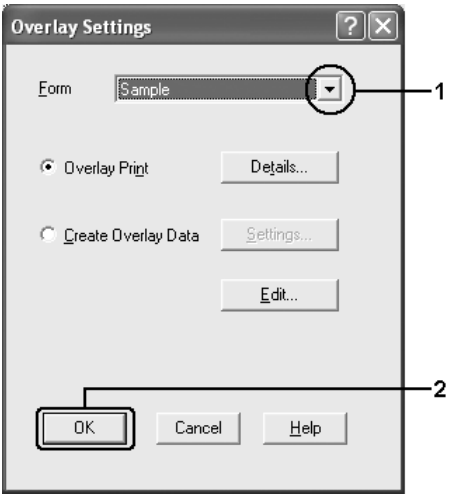
2. From the application, access the printer driver. Open the File menu, choose Print or Print Setup, then click Printer, Setup, Options, Properties, or a combination of these buttons, depending on your application.

3. Click the Advanced Layout tab.

4. Select the Form Overlay check box, and click Overlay Settings to open the Overlay Settings dialog box.

5. Choose the form from the Form drop-down list, then click OK to return the Advanced Layout tab.



Note:
If the Assign to Paper Source *check box is selected, the form name is displayed in the Paper Source drop-down list on the* Basic Settings *tab. You can also select the form without accessing the dialog box above.*

6. Click OK to print the data.

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Different printer settings overlay data

The overlay data is made with the current printer settings (such as Orientation: Portrait). If you want to make the same overlay with different printer settings (such as Landscape), follow the instructions below.

1. Re-access the printer driver as described in step 2 in "Creating an overlay" on page 81.

2. Make the printer settings and exit the printer driver.

3. Send the same data that you made by application to the printer like step 12 in "Creating an overlay" on page 81.

This setting is available only for Form Name data.

Using HDD form overlay

This function enables faster printing with form overlay data. Windows users can use the form data registered on the optional Hard Disk Drive installed in the printer though only an administrator can register or delete the form data on the Hard Disk Drive. You can access this function from the Form Selection dialog box in the printer driver.

Note:

- ❏ *This function is not available if the optional Hard Disk Drive is not installed.*

- ❏ *When the document's resolution, paper size or paper orientation settings are different from the form overlay data that you use, you cannot print the document with the form overlay data.*

- ❏ *This function is available in the High Quality (Printer) mode.*

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Register the form overlay data on the Hard Disk Drive

Only a network administrator using Windows XP, 2000, or Server 2003 is allowed to register the form overlay data on the optional Hard Disk Drive, using the following steps.

Note:

- ❏ *The form name must use only the characters shown below. A - Z, a - z, 0 - 9, and ! ') (- _ %*
- ❏ *If you are using the color printer driver, monochrome form overlay data created in the black mode is not displayed.*

1. Prepare the form overlay data to register on the local PC Hard Disk Drive.
2. Log in to Windows XP, 2000, or Server 2003 as an administrator.
3. For Windows 2000, click Start, point to Settings, and then click Printers.
   For Windows XP or Server 2003, click Start, point to Control Panel, and then double-click the Printers and Faxes icon.
4. Right-click the EPSON AL-C4200 Advanced icon and then click Properties.
5. Click the Optional Settings tab.
6. Click Register. The Register to HDD dialog box appears.

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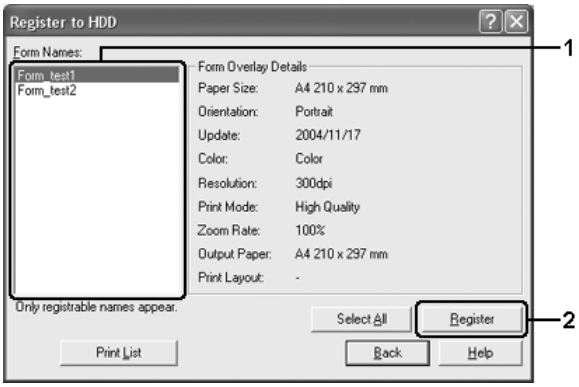
7. Select the form name from the Form Names list, and then click Register.



Note:
Only form names that can be registered appear on the Form Name list.

8. If you plan to distribute the form list to the clients, click Print List to print the list.

9. Click Back to close the Register to HDD dialog box.

10. Click OK to close the window.

Printing with HDD form overlay

All Windows users can use the registered form data on the optional Hard Disk Drive. Follow the steps below to print with HDD form data.

1. Click the Advanced Layout tab.

2. Select the Form Overlay check box, and click Overlay Settings. The Overlay Settings dialog box appears.

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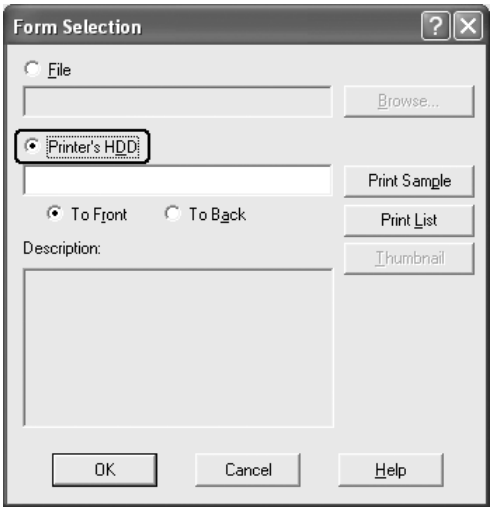
3. Select No Form name in the Form drop-down list, and click Details. The Form Selection dialog box appears.

   Note:
   Make sure that No Form name *is selected. If any form name is selected, another dialog box will appear.*

4. Click Printer's HDD. Type the form name in the text box, or click Browse and select the registered form name if the printer is connected through a network.



Note:

- ❏ *If you need the list of the registered form data, click* Print List *to print it and confirm the form name.*
  Also, if you need a sample print-out of the form data, enter the form name, then click Print Sample.

- ❏ *You can view thumbnails of the forms using a Web browser by clicking the* Thumbnail *button if the printer is connected through a network and the Java Runtime Environment has been installed.*

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5. Select To Front or To Back to print the form data as background or foreground of the document, then click OK to return to the Advanced Layout tab.

6. Click OK to print data.

Delete the form overlay data on the Hard Disk Drive

Only a network administrator using Windows XP, 2000, or Server 2003 is allowed to delete or edit the form overlay data on the optional Hard Disk Drive, using the following steps.

1. Log in to Windows XP, 2000, or Server 2003 as an administrator.

2. For Windows 2000, click Start, point to Settings, and then click Printers.
   For Windows XP or Server 2003, click Start, point to Control Panel, and then double-click the Printers and Faxes icon.

3. Right-click the EPSON AL-C4200 Advanced icon and then click Properties.

4. Click the Optional Settings tab.

5. Click Delete. The Delete from HDD dialog box appears.

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6. If you delete all form data, click the All button, then click Delete. If you want to delete some specific data, click the Selected button, enter the form name in the Form Name edit box, then click Delete.

Note:

- ❏ *If you need the list of the registered form data, click* Print List *to print it and confirm the form name. Also, if you need a sample print-out of the form data, enter the form name and click the* Print Sample *button.*

- ❏ *You can use the* Browse *button if the printer is connected through a network. Form names registered to the HDD are displayed by clicking the* Browse *button.*

7. Click Back.

8. Click OK to close the dialog box.

Making Extended Settings

You can make various settings in the Extended Settings dialog box. To open the dialog box, click Extended Settings on the Optional Settings tab.

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Printing mode:	High Quality (PC): Select this mode if you use a computer with higher specs to reduce the printer load. In this mode, functions such as "Form Overlay," and "Print true type with fonts with substitution" cannot be used. High Quality (Printer): Select this mode if you use a computer with lower specs to reduce the PC load. CRT: Select this mode if your printing results are not as good as you wish with "High Quality (PC)" or "High Quality (Printer)." In this mode, functions such as "PhotoEnhance," "Print Layout," "Binding Method," "Watermark," "Form Overlay," "Print true type with fonts with substitution," and "Web Smoothing" cannot be used.
Print True Type fonts as bitmap radio button:	Select this check box to print, as bitmap, the True Type fonts that are not substituted with device fonts in the document.
Print True Type fonts with substitution radio button:	Select this check box to print the True Type fonts in the document as device fonts. This function is not available when the Graphic Mode setting is set to High Quality (PC).
Setting button:	Click this button to open the Font Substitution dialog box. This button is available when Print True Type fonts with substitution is selected.
Uses the settings specified on the printer radio button:	Select this check box to use the Offset, the Skip blank page, and Ignore the selected paper size settings on the control panel.
Uses the settings specified on the driver radio button:	Select this check box to use the Offset, the Skip blank page, and Ignore the selected paper size settings in the printer driver.

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Offset	Makes fine adjustments to the printing position on the front and the back of data on a page in 0.5 mm increments.
Skip Blank Page check box:	When you select this check box, the printer skips blank pages.
Ignore the selected paper size check box:	When you select this check box, the printer prints on loaded paper, regardless of size.
Automatically change to monochrome mode check box:	Select this check box to have the printer driver analyze the printing data, and automatically switch to monochrome mode if the printing data is black and white.
Conserve color developers check box:	Select this check box to save consumable products by printing black and white.
High Speed Graphics Output check box:	Select this check box to optimize the printing speed of graphics composed of line drawings such as overlaid circles and squares. Clear this check box if graphics do not print correctly.
Uses the collate settings specified in the application check box:	Select this check box to enable the collate settings that are specified on the application.
Uses the spooling method provided by the operating system check box:	Select this check box to enable the Spool function for Windows XP, 2000, or Server 2003.
Extended Printable Area check box*:	Select this check box to extend printable area by decreasing the margins to 4 mm.
Default button:	Click this button to return the driver settings to the initial settings.
Help button:	Click this button to open online help.
Cancel button:	Click this button to exit the dialog box or printer driver without saving the settings.

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OK button:	Click this button to save the settings and to exit the dialog box or printer driver.

* When Extended Printable Area check box is selected, there is 4-mm minimum margin on all sides.

Making Optional Settings

You can update the installed option information manually if you have installed options to your printer.

For Windows XP/2000:

1. Open the printer's Properties dialog box.
2. Click the Optional Settings tab, then select Update the Printer Option Info Manually.
3. Click Settings. The Optional Settings dialog box appears.
4. Make settings for each installed option, then click OK.

For Windows Me/98:

1. Click the Optional Settings tab, then select Update the Printer Option Info Manually.
2. Click Settings. The Optional Settings dialog box appears.
3. Make settings for each installed option, then click OK.

Printing a status sheet

To confirm the current status of the printer, print a status sheet from the printer driver. The status sheet contains information about the printer, the current settings.

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Follow the steps below to print a status sheet.

1. Access the printer driver.

2. Click the Optional Settings tab and then click Status Sheet. The printer starts printing a status sheet.

Using the Reserve Job Function

The Reserve Job function allows you to store print jobs on the printer's Hard Disk Drive and to print them later directly from the printer's control panel. Follow the instructions in this section to use the Reserve Job function.

Note:
You need an optional Hard Disk Drive installed in your printer in order to use the Reserve Job function. Make sure that the drive is correctly recognized by the printer driver before you start using the Reserve Job function.

The table below gives an overview of the Reserve Job options. Each option is described in detail later in this section.

Reserve Job Option	Description
Re-Print Job	Lets you print the job now and store it for later reprinting.
Verify Job	Lets you print one copy now to verify the content before printing multiple copies.
Stored Job	Lets you save the print job without printing it now.
Confidential Job	Lets you apply a password to the print job and save it for later printing.

Jobs stored on the Hard Disk Drive are handled differently depending on the Reserve Job option. Refer to the tables below for details.

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Reserve Job Option	Maximum Number of Jobs	When Maximum is Exceeded	When Drive is Full
Re-Print Job + Verify Job	64 (combined total)	Oldest job automatically replaced with newest	Oldest job automatically replaced with newest
Stored Job	64	Delete old jobs manually	Delete old jobs manually
Confidential Job	64		

Reserve Job Option	After Printing	After Turning Off Printer or Using Reset All
Re-Print Job	data remains in hard drive	Data is cleared
Verify Job		
Stored Job		Data remains in hard drive
Confidential Job	data is cleared	Data is cleared

Re-Print Job

The Re-Print Job option allows you to store the job you are currently printing so that you can reprint it later directly from the control panel.

Follow the steps below to use the Re-Print Job option.

1. Click the Basic Settings tab.

2. Select the Collate in Printer check box. Specify the number of copies to be printed, and make other printer driver settings as appropriate for your document.

3. Click the Optional Settings tab, then click Reserve Jobs Settings. The Reserve Job Settings dialog box appears.

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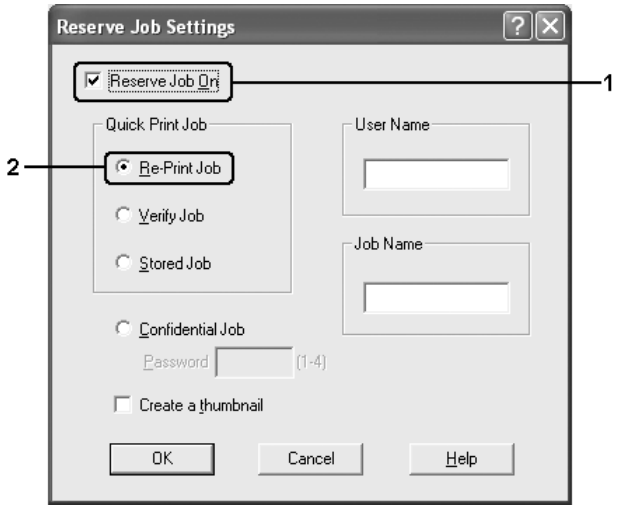
4. Select the Reserve Job On check box, then select Re-Print Job.



5. Enter a user name and job name in the corresponding text boxes.

   Note:
   If you want to create a thumbnail of the first page of a job, select the Create a thumbnail *check box. Thumbnails can be accessed by entering http:// followed by the internal print server's IP address in a Web browser.*

6. Click OK. The printer prints your document, and stores the print job on the Hard Disk Drive.

To reprint or delete this data using the printer's control panel, see "Printing and Deleting Reserve Job Data" on page 264.

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Verify Job

The Verify Job option allows you to print one copy in order to verify the content before printing multiple copies.

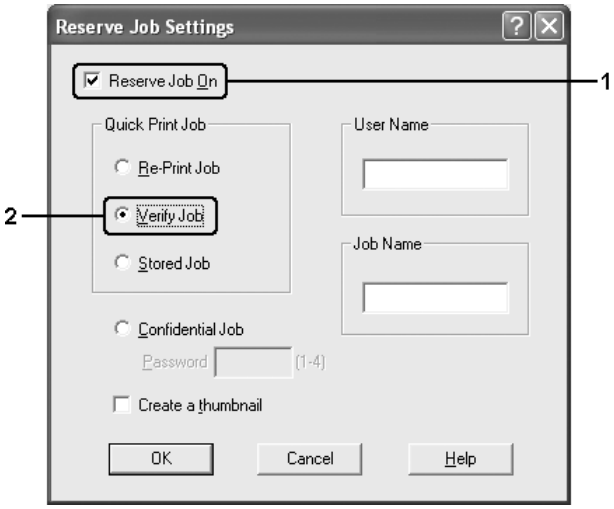
Follow the steps below to use the Verify Job option.

1. Click the Basic Settings tab.

2. Select the Collate in Printer check box. Specify the number of copies to be printed, and make other printer driver settings as appropriate for your document.

3. Click the Optional Settings tab, then click Reserve Jobs Settings. The Reserve Job Settings dialog box appears.

4. Select the Reserve Job On check box, then select Verify Job.



5. Enter a user name and job name in the corresponding text boxes.

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Note:
If you want to create a thumbnail of the first page of a job, select the Create a thumbnail *check box. Thumbnails can be accessed by entering http:// followed by the internal print server's IP address in a Web browser.*

6. Click OK. The printer prints one copy of your document, and stores the print data with information on the number of remaining copies on the Hard Disk Drive.

After you have confirmed the printout, you can print the remaining copies or delete this data using the printer's control panel. See "Printing and Deleting Reserve Job Data" on page 264 for instructions.

Stored Job

The Stored Job option is useful for storing documents you print on a regular basis, such as invoices. The stored data remains on the Hard Disk Drive even if you turn off the printer or reset it using the Reset All function.

Follow the steps below to store print data using the Stored Job option.

1. Click the Basic Settings tab.

2. Select the Collate in Printer check box. Specify the number of copies to be printed, and make other printer driver settings as appropriate for your document.

3. Click the Optional Settings tab, then click Reserve Jobs Settings. The Reserve Job Settings dialog box appears.

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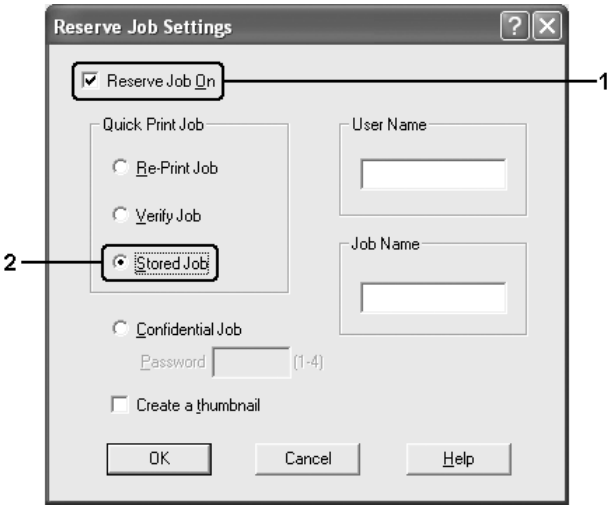
4. Select the Reserve Job On check box, then select Stored Job.



5. Enter a user name and job name in the corresponding text boxes.

   Note:
   If you want to create a thumbnail of the first page of a job, select the Create a thumbnail *check box. Thumbnails can be accessed by entering http:// followed by the internal print server's IP address in a Web browser.*

6. Click OK. The printer stores the print data on the Hard Disk Drive.

To print or delete this data using the printer's control panel, see "Printing and Deleting Reserve Job Data" on page 264.

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Confidential Job

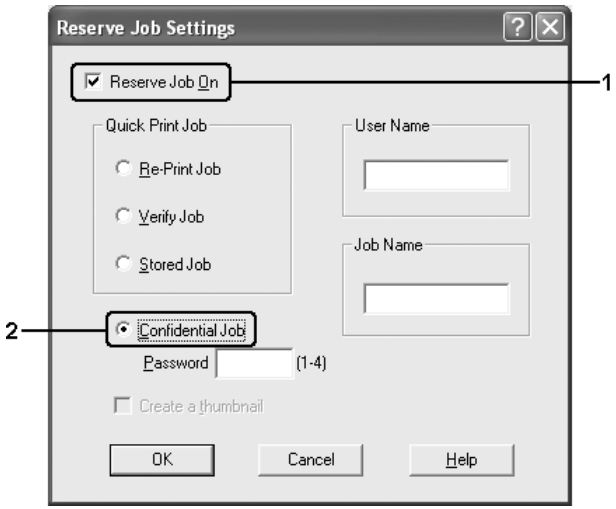
The Confidential Job option allows you to apply passwords to print jobs stored on the Hard Disk Drive.

Follow the steps below to store print data using the Confidential Job option.

1. Make printer driver settings as appropriate for your document.

2. Click the Optional Settings tab, then click Reserve Jobs Settings. The Reserve Jobs Settings dialog box appears.

3. Select the Reserve Job On check box, then select Confidential Job.



4. Enter a user name and job name in the corresponding text boxes.

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5. Set the password for the job by entering a four-digit number in the password text box.

   Note:
   - ❏ *Passwords must be four digits.*
   - ❏ *Only numbers from 1 through 4 can be used for passwords.*
   - ❏ *Keep passwords in a safe place. You must enter the correct password when printing a Confidential Job.*

6. Click OK. The printer stores the print job on the Hard Disk Drive.

To print or delete this data using the printer's control panel, see "Printing and Deleting Reserve Job Data" on page 264.

Monitoring Your Printer Using EPSON Status Monitor

Installing EPSON Status Monitor

Follow the steps below to install EPSON Status Monitor.

1. Make sure that the printer is off and that Windows is running on your computer.

2. Insert the printer software CD-ROM in the CD-ROM drive.

   Note:
   - ❏ *If the language selection window appears, select your country.*

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❏ *If the Epson Installation Program screen does not appear automatically, double-click the* My Computer *icon, right-click the* CD-ROM *icon, click* OPEN *in the menu that appears, then double-click* Epsetup.exe.

3. Click Continue. When the software license agreement screen appears, read the statement, then click Agree.

4. In the dialog box that appears, click Local.

Note:
See the Network Guide for information on installing EPSON Status Monitor on a network.

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5. Click Custom.

6. Select the EPSON Status Monitor check box, then click Install.

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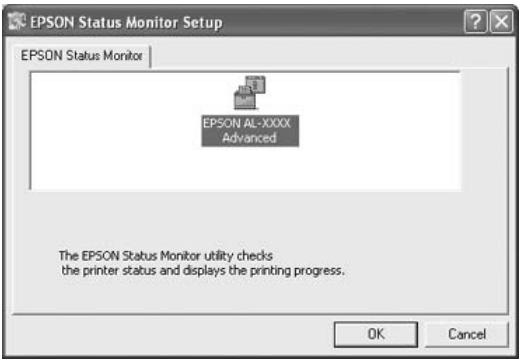
7. In the dialog box that appears, make sure that your printer's icon is selected, and click OK.



8. In the dialog box that appears, select your country or region, and the URL for EPSON's Web site in that country or region appears. Then click OK.

Note:

❏ *In the dialog box, you can set the URL for the site where you can order consumables online. See "Order Online" on page 118 for details.*

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- ❏ *Selecting your country or region allows you to change the settings of the URL.*

- ❏ *When you click the* Cancel *button, the Web site's URL does not appear, but the EPSON Status Monitor installation continues.*

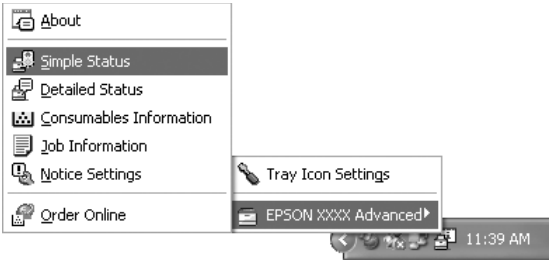
9. When the installation is complete, click OK.

Accessing EPSON Status Monitor

Follow the steps below to access EPSON Status Monitor.

1. Right-click the tray icon on the taskbar.

2. Select your printer name and then Simple Status. The Simple Status window appears.



Note:
You can also access EPSON Status Monitor by clicking the Simple Status *button on the* Optional Settings *tab.*

To find detailed information on EPSON Status Monitor, see "Information on EPSON Status Monitor" on page 109, "Simple Status" on page 109, "Detailed Status" on page 110, "Consumables Information" on page 111, "Job Information" on page 113, "Notice Settings" on page 117, "Order Online" on page 118, and "Tray Icon Settings" on page 120.

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EPSON Status Monitor is a utility program that monitors your printer and gives you information about its current status.

Note for Windows XP users:
EPSON Status Monitor is not available when printing from a Remote Desktop connection.

Note for Netware users:
When monitoring NetWare printers, a Novell Client that corresponds to your operating system must be used. Operation is confirmed for the versions below:

- ❏ *For Windows Me or 98:*
  Novell Client 3.4 for Windows 95/98

- ❏ *For Windows XP or 2000:*
  Novell Client 4.9 for Windows NT/2000/XP

- ❏ *To monitor a NetWare printer, connect only one print server to each queue. For directions, see the Network Guide for the printer.*

- ❏ *You cannot monitor a NetWare queue printer beyond the IPX router because the setting for IPX hops is 0.*

- ❏ *This product supports NetWare printers configured by a queue-based printing system such as Bindery or NDS. You cannot monitor NDPS (Novell Distributed Print Services) printers.*

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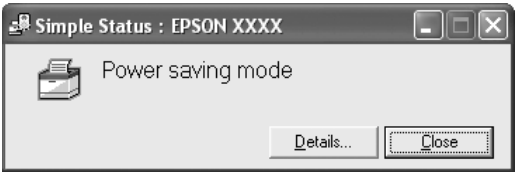
Information on EPSON Status Monitor

You can obtain information about EPSON Status Monitor such as product versions or interface versions.

This window appears by right-clicking the tray icon on the taskbar and selecting your printer name and About.

Simple Status

The Simple Status window indicates printer status, errors, and warnings.



This window appears by right-clicking the tray icon on the taskbar, then selecting your printer name, then clicking Simple Status. This window also appears when errors occur according to the Pop-up Notice you select in the Notice Settings dialog box.

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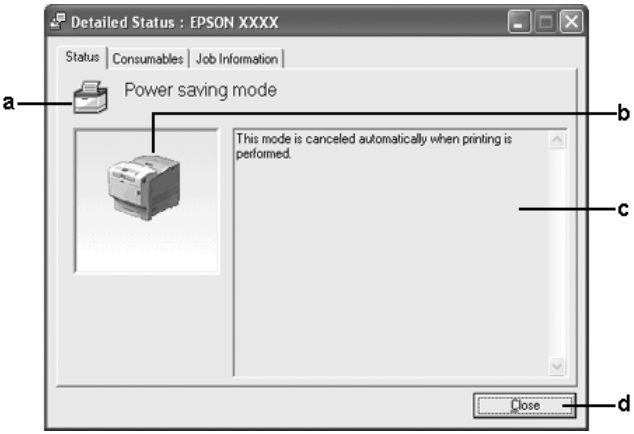
If you wish to see more information about the status of your printer, click Details.

Detailed Status

You can monitor detailed printer status by right-clicking the tray icon on the taskbar, then selecting your printer name, then clicking Detailed Status.



a.	Icon/Message:	The icon and message show the printer status.
b.	Printer image:	The image at the upper left shows the printer status graphically.
c.	Text box:	The text box next to the printer image displays the current status of the printer. When a problem occurs, the most probable solution is displayed.
d.	Close button:	Clicking this button closes the dialog box.

Note:
You can see information about jobs or consumables by clicking on the respective tab.

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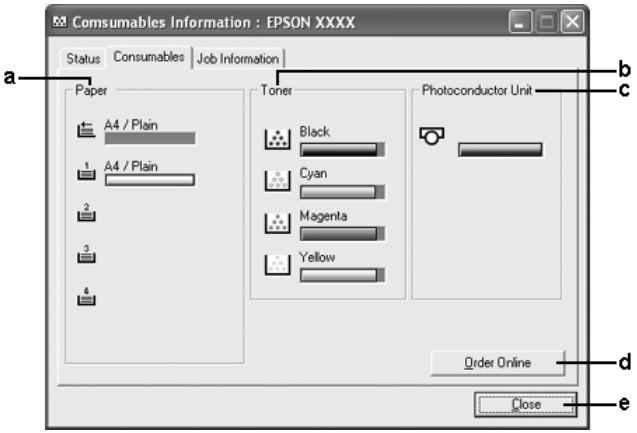
Consumables Information

You can obtain information on paper sources and consumable products by right-clicking the tray icon on the taskbar, then selecting your printer name, then clicking Consumables Information.



a.	Paper:	Displays the paper size, the paper type and the approximate amount of paper remaining in the paper source. Information on the optional paper cassettes are displayed only if these options are installed. The paper cassette icon flashes when the amount of paper remaining in the cassette is low.
b.	Toner:	Indicates the amount of remaining toner. The toner icon flashes when a toner error occurs or the toner is low.

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c.	Photoconductor Unit:	Indicates the remaining life of the photoconductor unit. The green level meter indicates the remaining life of the photoconductor unit that is set. The photoconductor icon flashes when an error in the photoconductor unit occurs or the photoconductor unit is near the end of its servise life.
d.	Order Online button:	Clicking this button enables you to order consumables online. See "Order Online" on page 118 for details.
e.	Close button:	Clicking this button closes the dialog box.

Note:
You can see the status of the printer or information about jobs by clicking on the respective tab.

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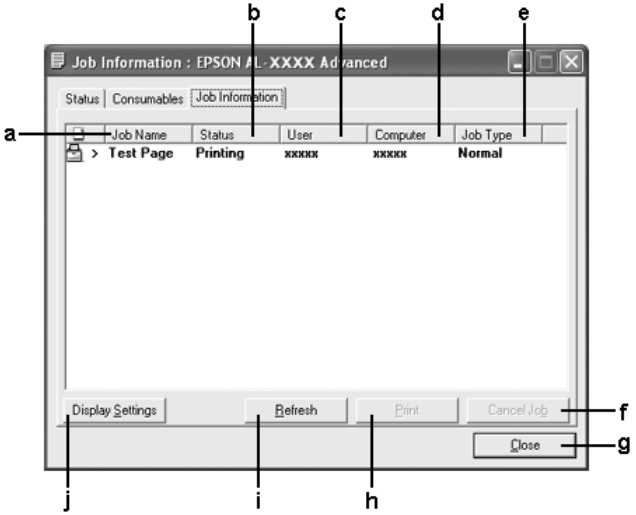
Job Information

You can check job information by right-clicking the tray icon on the taskbar, then selecting your printer name, then clicking Job Informaiton.



a.	Job Name:	Displays the user's print job names. Other user's print jobs are displayed as --------.

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b.	Status:	Waiting:	The print job which is waiting to be printed.
		Spooling:	The print job which is being spooled on your computer.
		Deleting:	The print job which is being deleted.
		Printing:	The print job which is printed currently.
		Completed:	Displays only your jobs that have finished printing.
		Canceled:	Displays only your jobs that have been canceled printing.
		Deleted:	Displays only your jobs that have been deleted.
		Held:	Job is on hold.
c.	User:	Displays the user name.	
d.	Computer:	Displays the name of the computer that sent the print job.	
e.	Job Type:	Displays the job type. When the Reserve job function is used, the jobs are displayed as Stored, Verify, Re-Print, and Confidential respectively. About the Reserve Job function, see "Using the Reserve Job Function" on page 96.	
f.	Cancel Job button:	Selecting a print job and clicking this button cancels the selected print job.	
g.	Close button	Clicking this button closes the dialog box.	
h.	Print button:	Display the dialog box to print the held status job.	
i.	Refresh button:	Clicking this button refreshes the information on this menu.	
j.	Display settings button	Displays the Display settings dialog box to select items to be displayed.	

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Note:
You can see the status of the printer or information about consumables by clicking on the respective tab.

Note for Windows XP users:
Shared Windows XP LPR connections and shared Windows XP Standard TCP/IP connections with Windows clients do not support the Job Management function.

The Job Information tab is available when the following connections are used:

Server and Client Environments:

- ❏ When using the shared Windows 2000 or Server 2003 LPR connection with Windows XP, Me, 98, or 2000 clients.
- ❏ When using the shared Windows 2000 or Server 2003 Standard TCP/IP connection with Windows XP, Me, 98, or 2000.
- ❏ When using the shared Windows 2000 or Server 2003 EpsonNet Print TCP/IP connection with Windows XP, Me, 98, or 2000 clients.

Client only Environments:

- ❏ When using the LPR connection (in Windows XP, 2000, or Server 2003).
- ❏ When using the Standard TCP/IP connection (in Windows XP, 2000, or Server 2003).
- ❏ When using the EpsonNet Print TCP/IP connection (in Windows XP, Me, 98, 2000, or Server 2003).

Note:
You cannot use this function in the following situations:

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- *When using an optional Ethernet interface card that does not support the Job Management function.*
- *When the NetWare connections do not support the Job Management function.*
- *When the printing jobs from NetWare and NetBEUI are displayed as "Unknown" on the Job Management menu.*
- *Note that if the user account used to log on to a client is different from the user account used to connect to the server, the Job Management function is not available.*

Note on deleting print jobs:
You cannot delete the print job spooling on client computers running Windows Me or 98 using EPSON Status Monitor when the following connections are used:

- *When using the shared Windows 2000 or Server 2003 LPR connection.*
- *When using the shared Windows 2000 or Server 2003 standard TCP/IP connection.*
- *When using the shared Windows 2000 or Server 2003 EpsonNet Print TCP/IP connection.*

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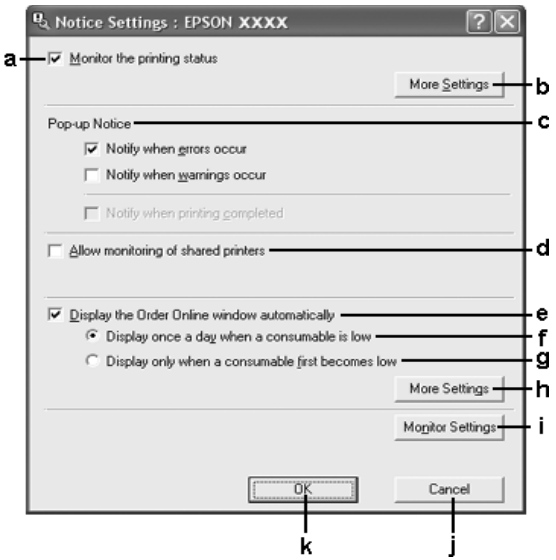
Notice Settings

You can make specific monitoring settings by right-clicking the tray icon on the taskbar, then selecting your printer name, then clicking Notice Settings. The Notice Settings dialog box appears.



a.	Monitor the printer status check box:	When this check box is selected, EPSON Status Monitor monitors the printer status during a print job is processed.
b.	More Settings button:	Displays the More Settings dialog box to set how to display the tray icon.
c.	Pop-up Notice:	Sets the notification to be displayed.
d.	Allow monitoring of the shared printers check box:	When this check box is selected, a shared printer can be monitored by other computers.

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e.	Display the Order Online window automatically check box:	When this check box is selected, the Order Online window appears automatically when a consumable becomes low or reaches end of service life and keeps appearing once a day until the consumable is replaced.
f.	Display once a day when a consumable is low check box:	When this radio button is selected, the Order Online window appears automatically once a day when you start printing or display the status by accessing EPSON Status Monitor.
g.	Display only when a consumable first becomes low check box:	When this radio box is selected, the Order Online window appears automatically only when a consumable first becomes low.
h.	More Settings button:	Displays the More Settings dialog box in which you can set the URL for placing an order appears.
i.	Monitor Settings button:	Displays the Monitor Settings dialog box to set the monitoring interval.
j.	Cancel button:	Click this button to exit the dialog box without saving the settings.
k.	OK button:	Click this button to save the settings and to exit the dialog box.

Order Online

You can order consumables online by clickng the Order Online button on the EPSON Status Monitor dialog box. The Order Online dialog box appears.

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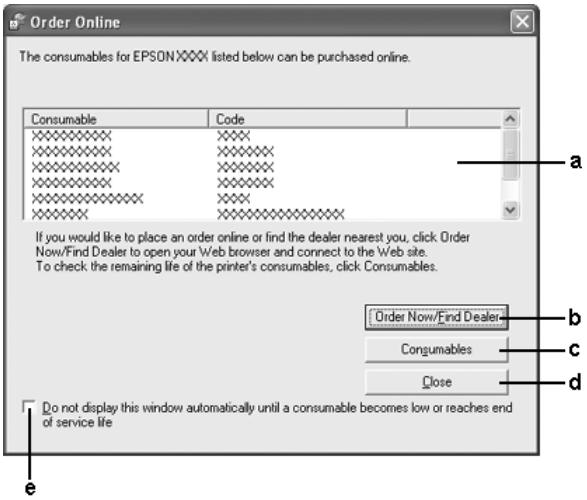
Note

The Order Online dialog box also appears by clicking the Order Online *button on the* Basic Settings *tab in the printer driver.*


Order Online
The consumables for EPSON XXXX listed below can be purchased online.
Consumable
Code
If you would like to place an order online or find the dealer nearest you, click Order Now/Find Dealer to open your Web browser and connect to the Web site.
To check the remaining life of the printer's consumables, click Consumables.
Order Now/Find Dealer
Consumables
Close
Do not display this window automatically until a consumable becomes low or reaches end of service life
a
b
c
d
e

a.	Text box:	Displays the consumables and codes.
b.	Order Now/Find Dealer button:	Connects to the URL where you can place an order and find the dealer nearest you. When you click this button, a confirmation window asking if you wish to connect to the Web site appears. If you do not want this window to appear, select the Do not display the confirmation message before connecting check box in the More Settings dialog box. The More Settings dialog box appears by clicking the More Settings button in the Notice Settings dialog box.
c.	Consumables button:	Displays the consumables information.
d.	Close button:	Closes the dialog box.

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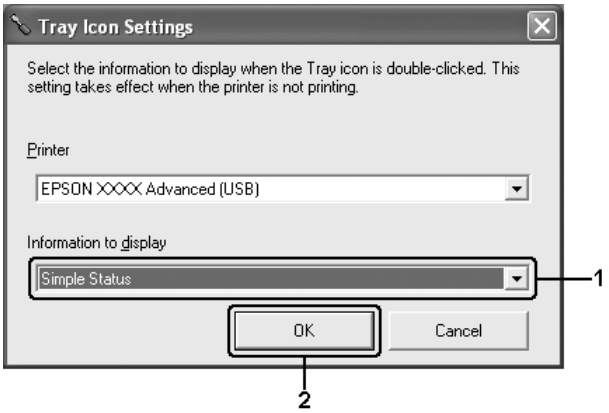
e.	Do not display this window automatically until a consumable becomes low or reaches end of service life check box:	When this check box is selected, the Order Online window appears automatically only when a consumable first becomes low or reaches end of service life.

Tray Icon Settings

You can access EPSON Status Monitor by double-clicking the tray icon on the taskbar. The menu that appears by double-clicking the tray icon when no printing job is being processed depends on the settings you select. Follow the steps below to set the tray icon settings.

1. Right-click the tray icon on the taskbar, then select Tray Icon Settings.

2. Confirm that your printer is selected. Select the menu you wish to display from the Information to display drop-down list. Then click OK.



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Note:
You can also access EPSON Status Monitor by right-clicking the tray icon and selecting your printer's name.

Setting Up the USB Connection

The USB interface that comes with your printer complies with Microsoft Plug and Play (PnP) USB specifications.

Note:

- ❏ *Only PC systems equipped with a USB connector and running Windows XP, Me, 98, 2000, or Server 2003 support the USB interface.*
- ❏ *Your computer must support USB 2.0 in order to use USB 2.0 as the interface to connect your computer to the printer.*
- ❏ *Since USB 2.0 is fully compatible with USB 1.1, USB 1.1 can be used as an interface.*
- ❏ *USB 2.0 is applied for Windows XP, 2000, and Server 2003 operating systems. If your operating system is Windows Me or 98, use USB 1.1 interface.*

1. Access the printer driver.
2. For Windows Me or 98, click the Details tab.
   For Windows XP, 2000, or Server 2003, click the Ports tab.

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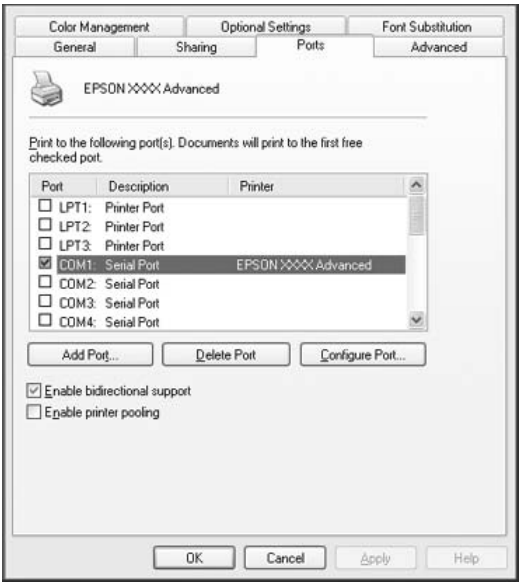
3. For Windows Me or 98, select the EPUSBX:(your printer name) USB port from the Print to the following port drop-down list.
   For Windows XP, 2000, or Server 2003, select the USBXXX USB port in the list on the Ports tab.



Note:
This screen may vary depending on your operating system version.

4. Click OK to save the settings.

Canceling Printing

If the printouts are not what you expected and display incorrect or garbled characters or images, you may need to cancel printing. When the printer's icon is displayed on the taskbar, follow the instructions below to cancel the printing.

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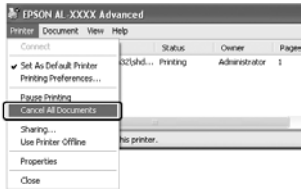
Double-click your printer's icon on the taskbar. Select the job in the list, then click Cancel from the Document menu.



After the last page is output, the Ready (green) light on the printer turns on.

The current job is canceled.

Note:
You can also cancel the current print job that is sent from your computer, by pressing the Cancel Job *button on the printer's control panel. When canceling the print job, be careful not to cancel print jobs sent by other users.*

Uninstalling the Printer Software

When you wish to reinstall or upgrade the printer driver, be sure to uninstall the current printer software beforehand.

Uninstalling the printer driver

1. Quit all applications.

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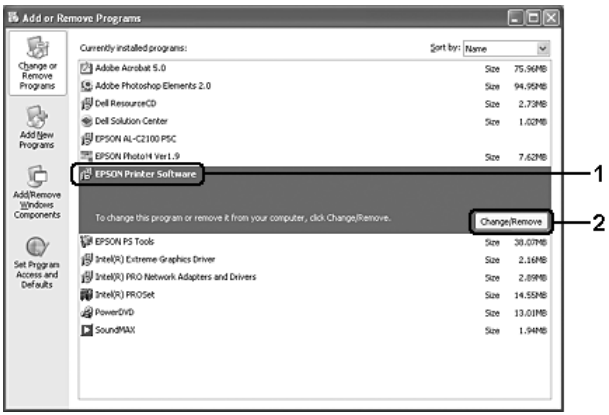
2. Click Start, point to Settings, then click Control Panel. For Windows XP or Server 2003, click Start, click Control Panel, then click Add or Remove Programs.

3. Double-click the Add/Remove Programs icon. For Windows XP or Server 2003, click the Change or Remove Programs icon.

4. Select EPSON Printer Software, then click Add/Remove. For Windows XP, 2000, or Server 2003, select EPSON Printer Software, then click Change/Remove.



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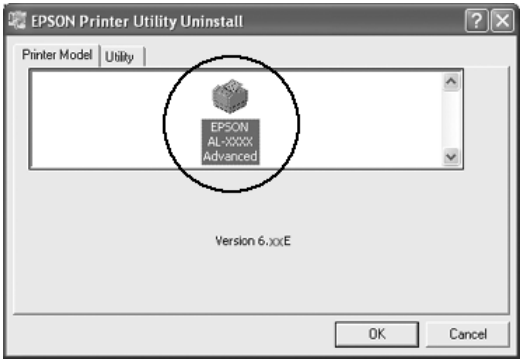
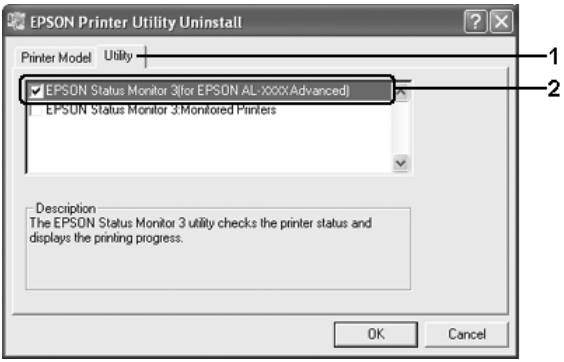
5. Click the Printer Model tab, select your printer's icon.



6. Click the Utility tab, and confirm that the check box for the printer software you want to uninstall is selected.



Note:
If you wish to uninstall only EPSON Status Monitor, select the EPSON Status Monitor *check box.*

7. To uninstall, click OK.

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Note:
You can uninstall only the Monitored Printers utility of EPSON Status Monitor. When the utility is uninstalled, you cannot change the settings of Monitored Printers from EPSON Status Monitor of other printers.

8. Follow the on-screen instructions.

Uninstall the USB device driver

When you connect the printer to your computer with a USB interface cable, the USB device driver is also installed. When you uninstalled the printer driver, you also need to uninstall the USB device driver.

Follow the steps below to uninstall the USB device driver.

Note:
- ❏ *Uninstall the printer driver before uninstalling the USB device driver.*

- ❏ *Once you uninstalled the USB device driver, you cannot access any other Epson printers connected with a USB interface cable.*

1. Follow steps 1 through 3 of "Uninstalling the printer driver" on page 123.

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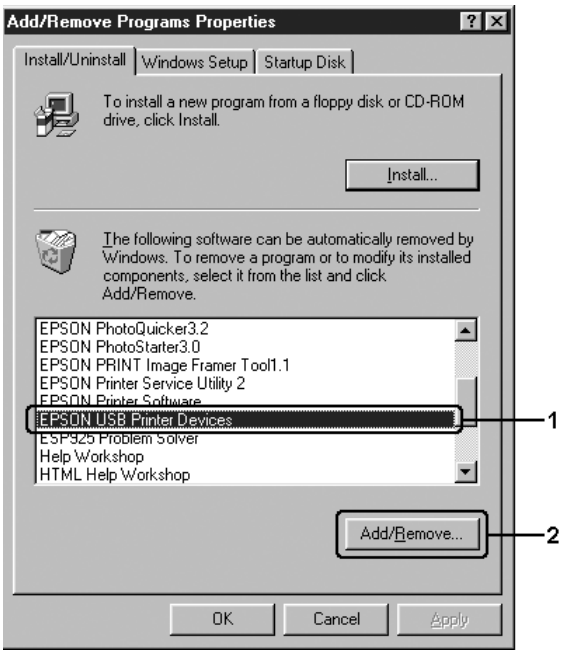
2. Select EPSON USB Printer Devices, then click Add/Remove.



Note:

- ❏ EPSON USB Printer Devices *appears only when the printer is connected to Windows Me or 98 with a USB interface cable.*

- ❏ *If the USB device driver is not installed correctly,* EPSON USB Printer Devices *may not appear. Follow the steps below to run the "Epusbun.exe" file in the CD-ROM that comes with your printer.*
  1.Insert the CD-ROM in your computer's CD-ROM drive.
  2.Access the CD-ROM drive.
  3.Double-click the Win9x *folder.*
  4.Double-click the Epusbun.exe *icon.*

3. Follow the on-screen instructions.

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Sharing the Printer on a Network

Sharing the printer

This section describes how to share the printer on a standard Windows network.

The computers on a network can share a printer that is directly connected to one of them. The computer that is directly connected to the printer is the print server, and the other computers are the clients which need permission to share the printer with the print server. The clients share the printer via the print server.

According to the versions of Windows OS and your access rights on the network, perform the appropriate settings of the print server and clients.

Setting the print server

- ❏ For Windows Me or 98, see "Setting up your printer as a shared printer" on page 129.
- ❏ For Windows XP, 2000, or Server 2003, see "Using an additional driver" on page 130.

Setting the clients

- ❏ For Windows Me or 98, see "With Windows Me or 98" on page 137.
- ❏ For Windows XP or 2000, see "With Windows XP or 2000" on page 138.

Note:

- ❏ *When sharing the printer, be sure to set EPSON Status Monitor so that the shared printer can be monitored on the print server. See "Notice Settings" on page 117.*

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❏ *When you are using shared printer in a Windows Me or 98 environment, on the server, double-click the* Network *icon in Control panel and make sure that the "File and printer sharing for Microsoft Networks" component is installed, then on the server and clients, make sure that the "IPX/SPX-compatible Protocol" or the "TCP/IP Protocol" is installed.*

❏ *The print server and clients should be set on the same network system, and they should be under the same network management beforehand.*

Setting up your printer as a shared printer

When the print server's OS is Windows Me or 98 follow the steps below to set the print server.

1. Click Start, point to Settings, then click Control Panel.
2. Double-click the Network icon.
3. Click File and Print Sharing on the Configuration menu.
4. Select the I want to be able to allow others to print to my printer(s). check box, then click OK.
5. Click OK to apply the settings.

   Note:

   ❏ *When "Insert the Disk" appears, insert the Windows Me or 98 CD-ROM in the computer. Click* OK, *then follow the on-screen instructions.*

   ❏ *When the prompt to restart the computer appears, restart the computer, then continue with the settings.*

6. Double-click the Printers icon on the control panel.

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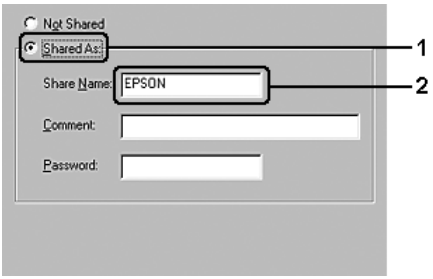
7. Right-click your printer's icon, then click Sharing in the menu that appears.

8. Select Shared As, type the name in the Share Name box, then click OK. Type a Comment and Password if needed.



Note:

❏ *Do not use spaces or hyphens for the share name, or an error may occur.*

❏ *When sharing the printer, be sure to set EPSON Status Monitor so that the shared printer can be monitored on the print server. See "Notice Settings" on page 117.*

You need to set the client computers so that they can use the printer on a network. See the following pages for details:

❏ "With Windows Me or 98" on page 137

❏ "With Windows XP or 2000" on page 138

Using an additional driver

When the print server's OS is Windows XP, 2000, or Server 2003, you can install the additional drivers on the server. The additional drivers are for client computers that have different OS from the server.

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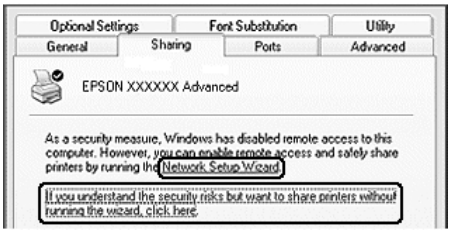
Follow the steps below to set a Windows XP, 2000, or Server 2003, as a print server, then install the additional drivers.

Note:
You must access Windows XP, 2000, or Server 2003, as the Administrators of the local machine.

1. For a Windows 2000 print server, click Start, point to Settings, then click Printers.
   For a Windows XP or Server 2003 print server, click Start, point to Printers and Faxes.

2. Right-click your printer's icon, then click Sharing in the menu that appears.

   For Windows XP or Server 2003, if the following menu appears, click either Network Setup Wizard or If you understand the security risks but want to share printers without running the wizard, click here.
   In either case, follow the on-screen instructions.


Optional Settings
Font Substitution
Utility
General
Sharing
Ports
Advanced
EPSON XXXXXX Advanced
As a security measure, Windows has disabled remote access to this computer. However, you can enable remote access and safely share printers by running the Network Setup Wizard.
If you understand the security risks but want to share printers without running the wizard, click here.

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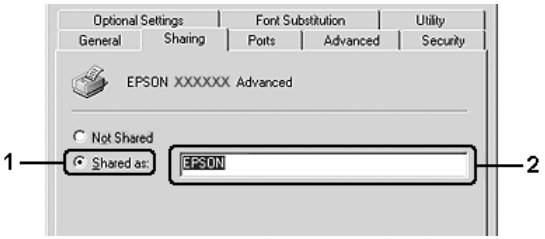
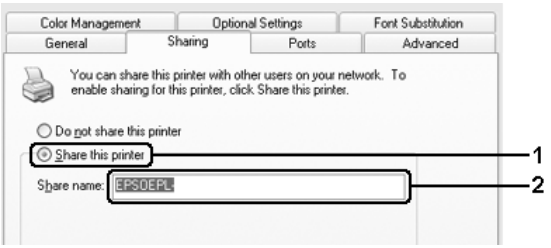
3. For a Windows 2000 print server, select Shared as, then type the name in the Share Name box.



For a Windows XP or Server 2003 print server, select Share this printer, then type the name in the Share name box.



Note:
Do not use spaces or hyphens for the Share name, or an error may occur.

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4. Click Additional Drivers.

Color Management
Optional Settings
Font Substitution
General
Sharing
Ports
Advanced
You can share this printer with other users on your network. To enable sharing for this printer, click Share this printer.
Do not share this printer
Share this printer
Share name: EPSONEPL
Drivers
If this printer is shared with users running different versions of Windows, you may want to install additional drivers, so that the users do not have to find the print driver when they connect to the shared printer.
Additional Drivers...
OK
Cancel
Apply
Help

Note:
If the computers of the server and clients use the same OS, you do not have to install the additional drivers. Just click OK *after step3.*

5. Select Windows being used for clients, then click OK.

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For Windows Me or 98 clients	Select Intel Windows 95 or 98 (Windows 2000), Select Intel Windows 95, 98 and Me (Windows XP), Select x86 Windows 95, WIndows 98 and Windows Millennium Edition (Windows Server 2003)
For Windows XP or 2000 clients	Intel Windows 2000 (Windows 2000), Intel Windows 2000 or XP (Windows XP), x86 Windows 2000, Windows XP and Windows Server 2003 (Windows Server 2003)

Note:

❏ *You do not have to install the additional drivers noted below, because these drivers are preinstalled.*
Intel Windows 2000 *(for Windows 2000)*
Intel Windows 2000 or XP *(for Windows XP)*
x86 Windows 2000, Windows XP and Windows Server 2003 *(for Windows Server 2003)*

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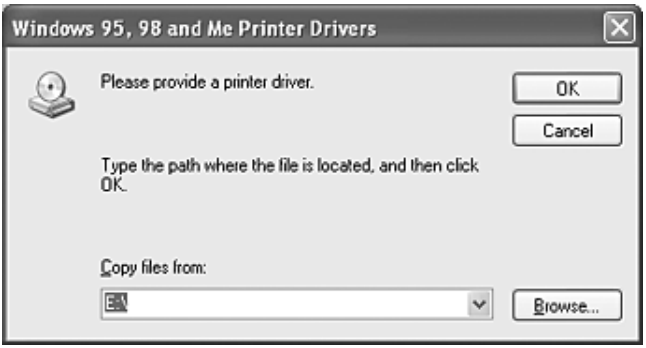
❏ *Do not select additional drivers other than the drivers listed in the above table. The other additional drivers are not available.*

6. When a prompt appears, insert the CD-ROM that comes with your printer in your CD-ROM drive, then click OK.

7. According to the message, type the appropriate drive and folder names in which the printer driver for clients is located, then click OK.
   Depending on the client's OS, the displayed message may differ.


Windows 95, 98 and Me Printer Drivers
Please provide a printer driver.
OK
Cancel
Type the path where the file is located, and then click OK.
Copy files from:
Browse...

   The folder name differs depending on the OS being used.

Client's OS	Folder Name
Windows Me or 98	\<Language>\WIN9X

   When installing drivers in Windows XP, 2000, or Server 2003, "Digital Signature is not found." may appear. Click Yes (for Windows 2000) or Continue Anyway (for Windows XP or Server 2003) and continue installing.

8. Click Close.

   Note:
   Confirm the following items when sharing the printer:

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- ❏ *Be sure to set EPSON Status Monitor so that the shared printer can be monitored on the print server. See "Notice Settings" on page 117.*

- ❏ *Set the security for the shared printer (access right for clients). Clients cannot use the shared printer without right. For details, see Windows help.*

You need to set the client computers so that they can use the printer on a network. See the following pages for details:

- ❏ "With Windows Me or 98" on page 137

- ❏ "With Windows XP or 2000" on page 138

Setting up clients

This section describes how to install the printer driver by accessing the shared printer on a network.

Note:

- ❏ *To share the printer on a Windows network, you need to set the print server. For details, see "Setting up your printer as a shared printer" on page 129 (Windows Me or 98) or "Using an additional driver" on page 130 (Windows XP, 2000, or Server 2003).*

- ❏ *This section describes how to access the shared printer on a standard network system using the server (Microsoft workgroup). If you cannot access the shared printer due to the network system, ask the administrator of the network for assistance.*

- ❏ *This section describes how to install the printer driver by accessing the shared printer from the* Printers *folder. You can also access the shared printer from Network Neighborhood or My Network on the Windows desktop.*

- ❏ *You cannot use the additional driver on the server system OS.*

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❏ *When you want to use EPSON Status Monitor at clients, you have to install both of the printer driver and EPSON Status Monitor in each client from the CD-ROM.*

With Windows Me or 98

Follow the steps below to set Windows Me or 98 clients.

1. Click Start, point to Settings, then click Printers.
2. Double-click the Add Printer icon, then click Next.
3. Select Network printer, then click Next.
4. Click Browse, and the Browse for Printer dialog box appears.

   Note:
   You can also type "\\(the name of the computer that is locally connected to the shared printer)\(the shared printer's name)*" in the network path or queue name.*

5. Click the computer or server that is connected to the shared printer, and the name of the shared printer, then click OK.

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Note:
The name of the shared printer may be changed by the computer or server that is connected to the shared printer. To make sure of the name of the shared printer, ask the administrator of the network.

6. Click Next.

Note:
- ❏ *If the printer driver is installed in the client beforehand, you need to select the new printer driver or the current printer driver. When the prompt to select the printer driver appears, select the printer driver according to the message.*

- ❏ *If the print server's OS is Windows Me or 98 or the additional driver for Windows Me or 98 is installed in the Windows XP, 2000, or Server 2003 print server, go to the next step.*

- ❏ *If the additional driver for Windows Me or 98 is not installed in the Windows XP, 2000, or Server 2003 print server, go to "Installing the printer driver from the CD-ROM" on page 143.*

7. Make sure of the name of the shared printer, then select whether to use the printer as the default printer or not. Click Next, then follow the on-screen instructions.

Note:
You can change the shared printer's name so that it appears only on the client computer.

With Windows XP or 2000

Follow the steps below to set Windows XP or 2000 clients.

You can install the printer driver for the shared printer, if you have Power Users or more powerful access rights even if you are not the Administrator.

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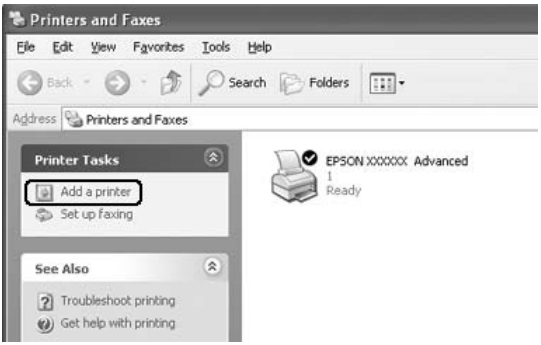
1. For Windows 2000 clients, click Start, point to Settings, and click Printers.
   For Windows XP clients, click Start, point to Printers and Faxes.

2. For Window 2000, double-click the Add Printer icon, then click Next.
   For Windows XP, click Add a printer in the Printer Tasks menu.



3. For Windows 2000, select Network printer, then click Next.
   For Windows XP, select A network printer, or a printer attached to another computer, then click Next.

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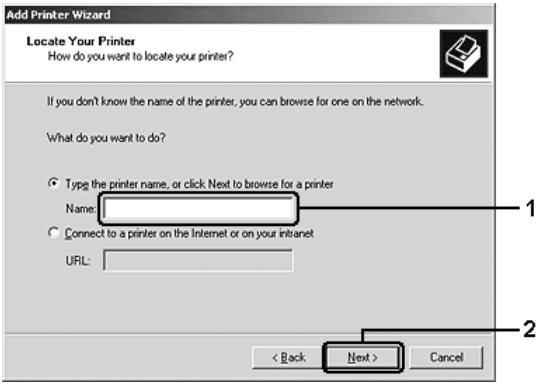
4. For Windows 2000, type the name of the shared printer, then click Next.


Add Printer Wizard
Locate Your Printer
How do you want to locate your printer?
If you don't know the name of the printer, you can browse for one on the network.
What do you want to do?
Type the printer name, or click Next to browse for a printer
Name:
Connect to a printer on the Internet or on your intranet
URL:
< Back
Next >
Cancel
1
2

Note:

- ❏ *You can also type "*\\(the name of the computer that is locally connected to the shared printer)\(the shared printer's name)*" in network path or queue name.*

- ❏ *You do not necessarily need to type the name of the shared printer.*

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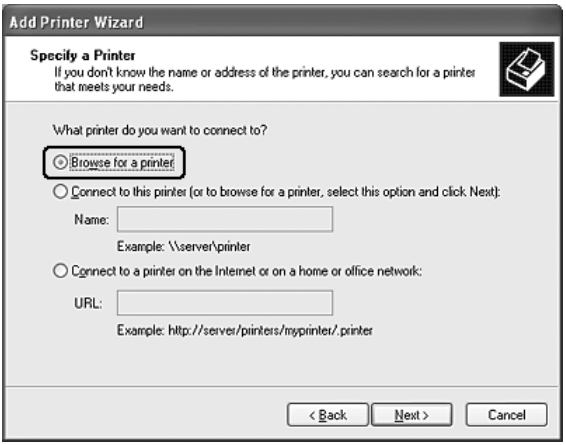
For Windows XP, select Browse for a printer.


Add Printer Wizard
Specify a Printer
If you don't know the name or address of the printer, you can search for a printer that meets your needs.
What printer do you want to connect to?
Browse for a printer
Connect to this printer (or to browse for a printer, select this option and click Next):
Name:
Example: \\server\printer
Connect to a printer on the Internet or on a home or office network:
URL:
Example: http://server/printers/myprinter/.printer
< Back
Next >
Cancel

5. Click the icon of the computer or server that is connected to the shared printer, and the name of the shared printer, then click Next.

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Note:

- ❏ *The name of the shared printer may be changed by the computer or server that is connected to the shared printer. To make sure of the name of the shared printer, ask the administrator of the network.*

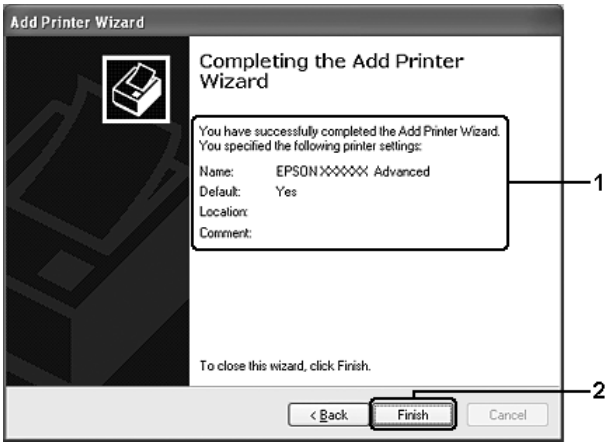
- ❏ *If the printer driver is installed in the client beforehand, you need to select either the new printer driver or the current printer driver. When the prompt to select the printer driver appears, select the printer driver according to the message.*

- ❏ *If the additional driver for Windows XP or 2000 is installed in the Windows XP, 2000, or Server 2003 print server, go to the next step.*

- ❏ *If the print server's OS is Windows Me or 98, go to "Installing the printer driver from the CD-ROM" on page 143.*

6. For Windows 2000, select whether to use the printer as the default printer or not, then click Next.

7. Make sure of the settings, then click Finish.



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Installing the printer driver from the CD-ROM

This section describes how to install the printer driver in the clients when setting the network system as follows:

- ❏ The additional drivers are not installed in the Windows XP, 2000, or Server 2003 print server.
- ❏ The print server's OS is Windows Me or 98 and the client's OS is Windows XP or 2000.

The on-screen displays on the following pages may differ depending on the version of Windows OS.

Note:

- ❏ *When installing in Windows XP or 2000 clients, you must access Windows XP or 2000 as the Administrator.*
- ❏ *If the additional drivers are installed or the computers of the server and clients use the same OS, you do not have to install the printer drivers from the CD-ROM.*

1. Access the shared printer and a prompt may appear. Click OK, then follow the on-screen instructions to install the printer driver from the CD-ROM.

2. Insert the CD-ROM, type the appropriate drive and folder names in which the printer driver for clients is located, then click OK.

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When installing drivers in Windows XP, 2000, or Server 2003, "Digital Signature is not found." may appear. Click Yes (for Windows 2000) or Continue Anyway (for Windows XP or Server 2003) and continue installing.

The folder name differs depending on the OS being used.

Client's OS	Folder Name
Windows Me or 98	\<Language>\WIN9X
Windows 2000 or XP	\<Language>\WINXP_2K

3. Select the name of the printer, click OK, then follow the on-screen instructions.

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Chapter 5

Using the Printer Software with Macintosh

About the Printer Software

The printer software contains a printer driver and EPSON Status Monitor. The printer driver lets you choose from a wide variety of settings to get the best results from your printer.
Use the following procedures to access the EPSON Status Monitor.

For Mac OS X 10.3 users, open Printer Setup Utility and click on your printer in the Printer List dialog box to select your printer. Then click Utility.
For Mac OS X 10.2 users, open Print Center and click on your printer in the Printer List dialog box to select your printer. Then click Configure.

Note:
Before you access EPSON Status Monitor for the first time, you need to access the printer driver to get the correct status of the printer.

For Mac OS 9 users, select the EPSON Status Monitor alias from the Apple menu, then click your printer's icon.

EPSON Status Monitor lets you check the status of your printer. See "Monitoring Your Printer using EPSON Status Monitor" on page 177 for more information.

Note:
Instructions in this section that are common to all operating systems are for Mac OS X 10.3 as an example. They may slightly differ from what actually appears on your screen depending on your operating system; however, the functions are the same.

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Accessing the printer driver

To control your printer and change its settings, use the printer driver. The printer driver allows you to easily make all the print settings, including paper source, paper size, and orientation.

Mac OS X

To access the printer driver, register your printer in Printer Setup Utility (for Mac OS X 10.3) or Print Center (for Mac OS X 10.2 or below), click Print on the File menu of any application, then select your printer.

Mac OS 9

To access the printer driver, open the appropriate dialog box, select Chooser from the Apple menu, then click your printer's icon.

Opening the dialog boxes from the application

- ❏ To open the Paper Setting dialog box, select Page Setup from the File menu on any application.
- ❏ To open the Basic Settings dialog box, select Print from the File menu on any application.

Note:
The printer driver's online help provides details on printer driver settings.

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Making Changes to Printer Settings

Making the print quality settings

You can change the print quality of printouts through settings in the printer driver. With the printer driver, you can make the print settings by choosing from a list of predefined settings, or customizing the settings.

Choosing the print quality by using the Automatic setting

You can change the print quality of printouts to favor speed or detail. There are three levels of print output, Fast, Fine, and Super Fine. Fine and Super Fine provide high quality, precise printing, but requires more memory and slows the printing speed.

When Automatic is selected on the Basic Settings tab, the printer driver takes care of all detailed settings according to the color setting you select. Color and resolution are the only settings you need to make. You can change other settings such as paper size or orientation in most applications.

For Mac OS X users

1. Open the Print dialog box.

2. Select Printer Settings from the drop-down list, and select the Basic Settings tab.

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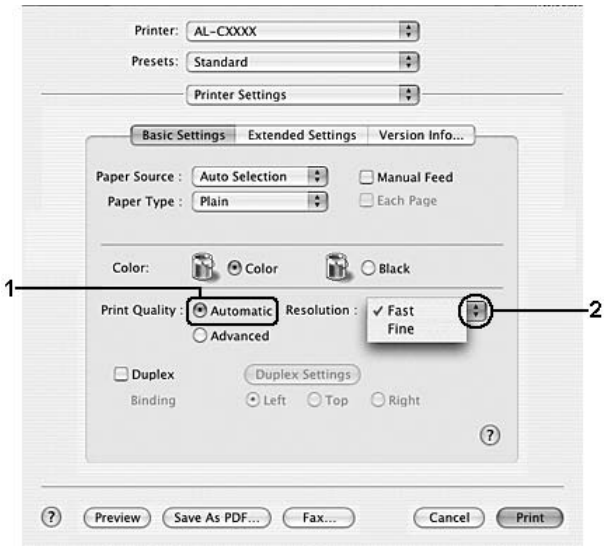
3. Click Automatic, then choose the resolution from the Resolution drop-down list.



For Mac OS 9 users

1. Open the Basic Settings dialog box.

2. Click Automatic on Print Quality, then choose desired printing resolution with the slider bar.

   Note:
   If printing is unsuccessful or a memory-related error message appears, selecting a lower resolution may allow printing to proceed.

Using the predefined settings

The predefined settings are provided to help you optimize print settings for a particular kind of printout, such as presentation documents or images taken by a video or digital camera.

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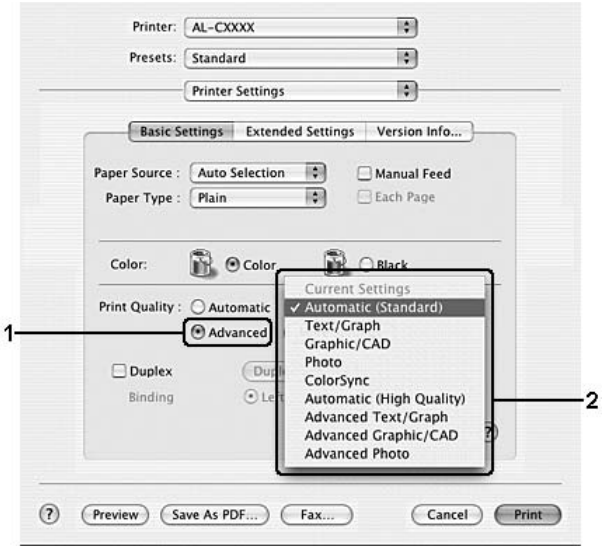
Follow the steps below to use the predefined settings.

For Mac OS X users

1. Open the Print dialog box.

2. Select Printer Settings from the drop-down list, and select the Basic Settings tab.

3. Select Advanced. You will find the predefined settings in the list on the right of Automatic.



4. Select the most appropriate setting from the list according to the type of document or image you want to print.

For Mac OS 9 users

1. Open the Basic Settings dialog box.

2. Select Advanced. You will find the predefined settings in the list on the right of Automatic.

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Note:
For details about the RITech function, see the online help.

3. Select the most appropriate setting from the list according to the type of document or image you want to print.

When you choose a predefined setting, other settings such as Printing Mode, Resolution, Screen, and Color Management are set automatically. Changes are shown in the Summary drop-down list in the Print dialog box (for Mac OS X), or in the current settings list on the left of the Basic Settings dialog box (for Mac OS 9).

This printer driver provides the following predefined settings:

Automatic (Standard)

Suitable for regular printing, especially photos.

Text/Graph

Suitable for printing documents that include text and graphs, such as presentation documents.

Graphic/CAD

Suitable for printing graphs and charts.

Photo

Suitable for printing photos.

PhotoEnhance

Suitable for printing images captured using the video input, a digital camera, or scanner. EPSON PhotoEnhance automatically adjusts the contrast, saturation, and brightness of the original image data to produce sharper, more vivid color printouts. This setting does not affect your original image data.

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Note:
This function is not available with Mac OS X.

ColorSync

Automatically adjusts printout colors to match colors on your screen.

Automatic (High Quality)

Suitable for regular printing that gives priority to high-quality printing.

Advanced Text/Graph

Suitable for printing high-quality presentation documents that include text and graphs.

Advanced Graphic/CAD

Suitable for printing high-quality graphs, charts, and photos.

Advanced Photo

Suitable for printing high-quality scanned photos and digitally-captured images.

Customizing print settings

Your printer provides for customized print settings if you need more control over the printout, want to make the most detailed settings available, or just want to experiment.

Follow the steps below to customize your print settings.

For Mac OS X users

1. Open the Print dialog box.

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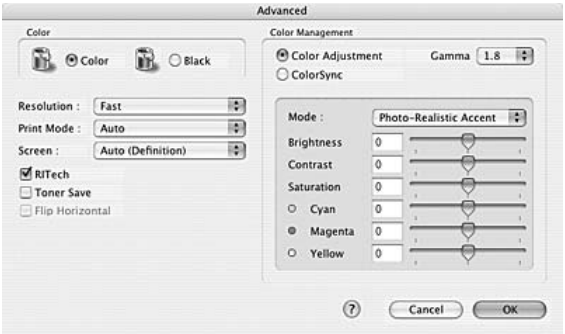
2. Select Printer Settings from the drop-down list, and select Basic Settings tab.

3. Click Advanced, then click More Settings. The following dialog box appears.



4. Choose Color or Black as the Color setting.

5. Choose the desired printing resolution from the drop-down list.

   Note:
   When making the other settings, click the ? button for details on each setting.

6. Click OK to apply the settings and return to the Basic Settings dialog box.

   Note:
   For details on each setting, see the online help.

For Mac OS 9 users

1. Open the Basic Settings dialog box.

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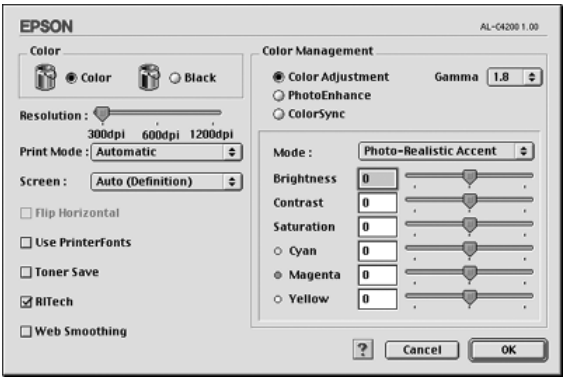
2. Click Advanced, then click More Settings. The following dialog box appears.



3. Choose Color or Black as the Color setting.

4. Choose the desired printing resolution with the slider bar.

   Note:
   When making the other settings, click the ? button for details on each setting.

5. Click OK to apply the settings and return to the Basic Settings dialog box.

   Note:
   For details on each setting, see the online help.

Saving your settings

For Mac OS X users

Use the following procedures to save your custom settings.

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Save your custom settings by Save or Save As in the Preset on the Print dialog box. Type a name for your custom settings in the name box. Your settings will be saved with this name in the Preset drop-down list.

Note:
The Custom Setting *option is a standard feature of Mac OS X.*

For Mac OS 9 users

To save your custom settings, select Advanced, then click Save Settings on the Basic Settings dialog box. The Custom Settings dialog box appears.

Type a name for your custom settings in the Name box, click Save. Your settings will appear in the list on the right of Automatic in the Basic Settings dialog box.

Note:

- ❏ *To delete a custom setting, select* Advanced, *click* Save Settings *on the Basic Settings dialog box, select the setting in the User Settings dialog box, then click* Delete.

- ❏ *You cannot delete predefined settings.*

If you change any setting in the Advanced Settings dialog box when one of your custom settings is selected in the Advanced Settings list on the Basic Settings dialog box, the setting selected in the list changes to User Settings. The custom setting that was previously selected is not affected by this change. To return to your custom setting, simply reselect it from the current settings list.

Resizing printouts

The Fit to Page function in the Layout dialog box allows you to have your documents enlarged or reduced during printing according to the specified paper size.

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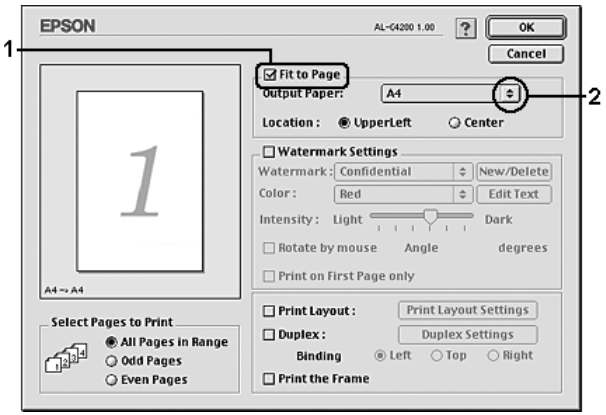
Note:

- ❏ *This function is not available with Mac OS X.*
- ❏ *The enlarging or reducing rate is automatically specified according to the paper size selected in the Paper Setting dialog box.*
- ❏ *The modifying or reducing rate selected in the Paper Setting dialog box is not available.*

1. Click the Layout icon on the Basic Settings dialog box. The Layout dialog box appears.

2. Select the Fit to Page check box, then select the desired paper size from the Output Paper drop-down list. The page will be printed to fit on the paper you have selected.



3. Click OK to apply the settings.

Modifying the print layout

You can print either two or four pages onto a single page and to specify the printing order, automatically resizing each page to fit the specified paper size by using Layout printing. You can also choose to print documents surrounded by a frame.

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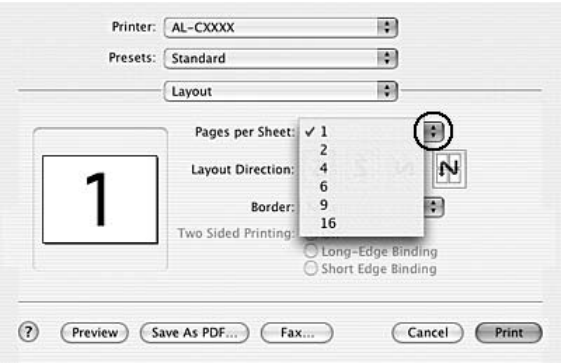
For Mac OS X users

1. Open the Print dialog box.

2. Select Layout from the drop-down list.

3. Select the number of pages you want to print on one sheet of paper from the drop-down list.



4. Click Print to start printing.

   Note:
   The Layout *settings are a standard feature of Mac OS X.*

For Mac OS 9 users

1. Click the Layout icon on the Basic Settings dialog box. The Layout dialog box appears.

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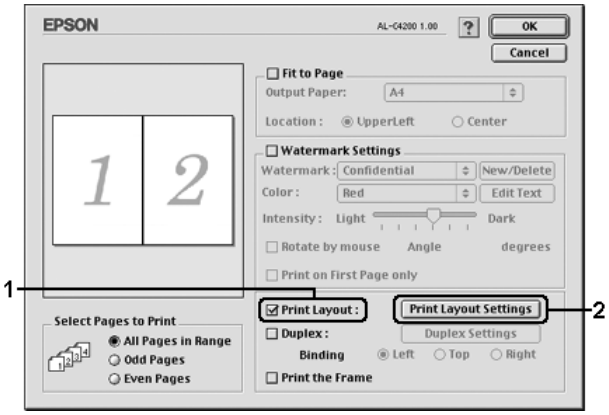
2. Select the Print Layout check box, then click Print Layout Settings. The Print Layout Setting dialog box appears.



3. Select the number of pages you want to print on one sheet of paper.

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4. Select the page order in which the pages are printed on each sheet.

   Note:
   Page Order choices depend on Pages selected above, and Orientation.

5. Click OK to apply the settings and return to the Layout dialog box.

6. Select the Print the Frame check box on the Layout dialog box when you want to print the pages surrounded by a frame.

7. Click OK to apply the settings.

Using a watermark

Follow the steps below to use a watermark on your document. In the Layout dialog box, you can select from a list of predefined watermarks, or you can select a bitmap (PICT) file or text file as your own custom watermark. The Layout dialog box also allows you to make a variety of detailed watermark settings. For example, you can select the size, intensity, and position of your watermark.

Note:
This function is not available with Mac OS X.

1. Click the Layout icon on the Basic Settings dialog box. The Layout dialog box appears.

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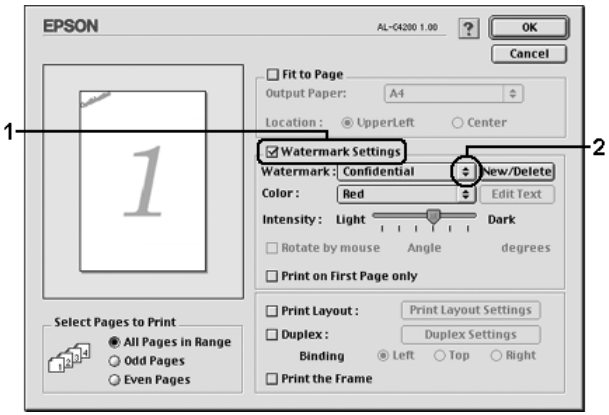
2. Select the Watermark Settings check box, then select a watermark from the Watermark drop-down list.



3. Select the location on the page where you want to print the watermark by dragging the watermark image on the preview window. Also, when you want to resize the watermark, drag its handle.

4. Adjust the image intensity of the watermark with the Intensity slider bar.

5. For your own custom text watermark, you can rotate it by inputting the degrees in the Angle box. Or select the Rotate by mouse check box, then rotate the text watermark with the pointer on the preview window.

6. Click OK to apply the settings.

Making a new watermark

You can make a new text or bitmap watermark with the following procedures.

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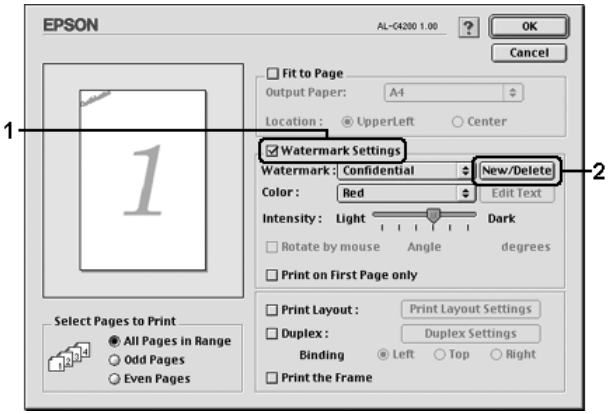
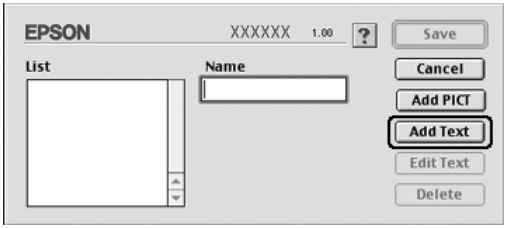
To make a text watermark

1. Click the Layout icon on the Basic Settings dialog box. The Layout dialog box appears.

2. Select the Watermark Settings check box, then click New/Delete. The Custom Watermark dialog box appears.



3. Click Add Text on the Custom Watermark dialog box.



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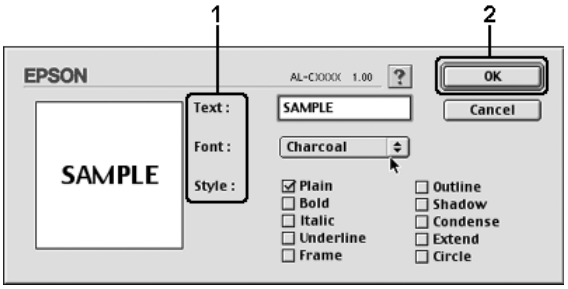
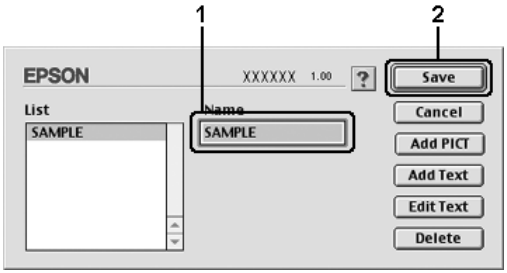
4. Type the watermark text in the Text box, select the Font and Style, then click OK on the Text Watermark dialog box.



5. Type the file name in the Name box, then click Save.



Note:

- ❏ *To edit the saved text watermark, select it from the List box, then click* Edit Text. *After editing, be sure to click* OK *to close the dialog box.*

- ❏ *To remove the saved text watermark, select it from the List box, then click* Delete. *After removing it, be sure to click* Save *to close the dialog box.*

6. Select the saved custom watermark from the Watermark drop-down list on the Layout dialog box, then click OK.

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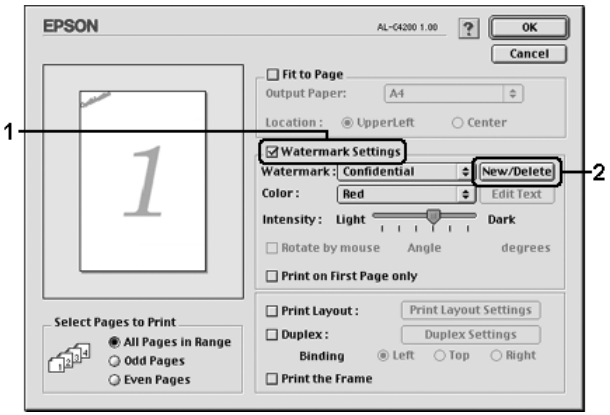
To make a bitmap watermark

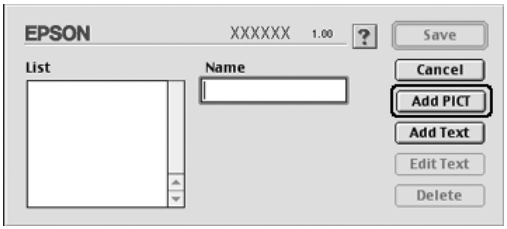
Before making a custom watermark, you should prepare a bitmap (PICT) file.

1. Click the Layout icon on the Basic Settings dialog box. The Layout dialog box appears.

2. Select the Watermark Settings check box, then click New/Delete. The Custom Watermark dialog box appears.



3. Click Add PICT on the Custom watermark dialog box.



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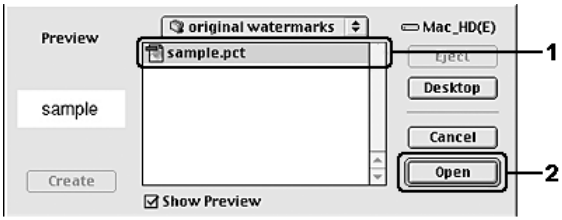
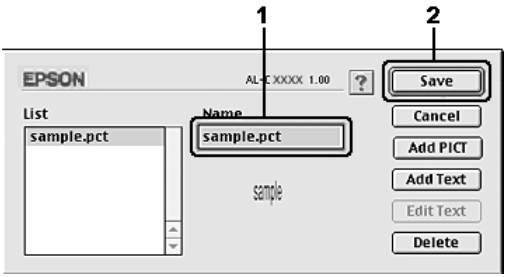
4. Select the PICT file, then click Open.



5. Type the file name in the Name box, then click Save.



Note:
To remove the saved watermark, select it from the List box, then click Delete. *After removing it, be sure to click* Save *to close the dialog box.*

6. Select the saved custom watermark from the Watermark drop-down list on the Layout dialog box, then click OK.

Duplex printing

Duplex printing prints on both sides of the paper. You can also do duplex printing manually without using the Duplex Unit. When printing for binding, the binding edge can be specified as required to produce the desired page order.

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As an ENERGY STAR® partner, Epson recommends the use of the double-sided printing function. Refer to ENERGY STAR® Compliance for more information on the ENERGY STAR® program.

Printing with the Duplex Unit

Follow the steps below to print with the Duplex Unit.

For Mac OS X users

1. Open the Print dialog box.
2. Select Printer Settings from the drop-down list, and select Basic Settings tab.
3. Click Duplex check box, select a Binding position from Left, Top, or Right.
4. Click the Duplex Settings button.
5. Specify the Binding Margin for the front and back sides of the paper.
6. Select whether the front or back side of the paper is to be printed as the Start Page.
7. Click Print to start printing.

For Mac OS 9 users

1. Click the Layout icon on the Basic Settings dialog box. The Layout dialog box appears.
2. Select the Duplex check box.
3. Select a Binding position from Left, Top, or Right.
4. Click Duplex Settings to open the Duplex Settings dialog box.

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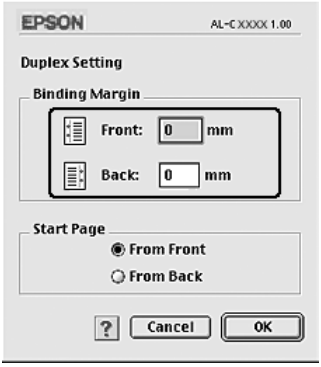
5. Specify the Binding Margin for the front and back sides of the paper.



6. Select whether the front or back side of the paper is to be printed as the Start Page.

7. Click OK to apply the settings and return to the Layout dialog box.

Making Extended Settings

You can make various settings in the Extended Settings dialog box, for example Page Protect.

For Mac OS X users, open the Print dialog box and select Printer Settings from the drop-down list, then select the Extended Settings tab.

For Mac OS 9 users, click the Extended Settings icon on the Basic Settings dialog box.

Offset:	Makes fine adjustments to the printing position on the front and the back of data on a page in 1 mm increments.

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Ignore the selected paper size check box:	When you select this check box, the printer prints on loaded paper, regardless of size.
Uses the settings specified on the printer check box:	Select this button to use the settings specified on the control panel.
Skip Blank Page check box:	When you select this check box, the printer skips blank pages.
Automatically change to monochrome mode check box:	Select this check box to have the printer driver analyze the printing data, and automatically switch to monochrome mode if the printing data is black and white.
Conserve color developers check box:	Select this check box to save consumable products by printing black and white.
Adjust line thickness check box:	Adjusts the width of the lines printed. **Note**: This function is not available with Mac OS X.
Pattern Smoothing check box:	Adjust pattern intensity. **Note**: This function is not available with Mac OS X.
Default button:	For Mac OS X users, click this button to return the driver settings to the initial settings. For Mac OS 9 users, click this button to return the settings in the Temporary Spool Folder to the initial settings.
Select button:	Selects spool file saving folder. **Note**: This function is not available with Mac OS X.
Cancel button:	Click this button to exit the dialog box or printer driver without saving the settings.
OK button:	Click this button to save your settings and to exit the dialog box or printer driver. The settings are effective until you make new settings and click OK again. **Note**: This function is not available with Mac OS X.

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Printing a status sheet

To confirm the current status of the printer, print a status sheet from the printer driver. The status sheet contains information about the printer, the current settings.

Follow the steps below to print a status sheet.

1. Select Chooser from the Apple menu. Click the icon of your printer, and then select the USB port that your printer is connected to. Click Setup, and the EPSON Printer Setup dialog box appears.

2. Click Print Status, and the printer starts printing a status sheet.

Note:
This function is not available with Mac OS X. For Mac OS X users, print a status sheet from the control panel. See "Printing a Status Sheet" on page 267 for instructions.

Using the Reserve Job Function

The Reserve Job function allows you to store print jobs on the printer's Hard Disk Drive and to print them later directly from the printer's control panel. Follow the instructions in this section to use the Reserve Job function.

Note:
You need an optional Hard Disk Drive installed in your printer in order to use the Reserve Job function. Make sure that the drive is correctly recognized by the printer driver before you start using the Reserve Job function.

The table below gives an overview of the Reserve Job options. Each option is described in detail later in this section.

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Reserve Job Option	Description
Re-Print Job	Lets you print the job now and store it for later reprinting.
Verify Job	Lets you print one copy now to verify the content before printing multiple copies.
Stored Job	Lets you save the print job without printing it now.
Confidential Job	Lets you apply a password to the print job and save it for later printing.

Jobs stored on the Hard Disk Drive are handled differently depending on the Reserve Job option. Refer to the tables below for details.

Reserve Job Option	Maximum Number of Jobs	When Maximum is Exceeded	When Drive is Full
Re-Print Job + Verify Job	64 (combined total)	Oldest job automatically replaced with newest	Oldest job automatically replaced with newest
Stored Job	64	Delete old jobs manually	Delete old jobs manually
Confidential Job	64		

Reserve Job Option	After Printing	After Turning Off Printer or Using Reset All
Re-Print Job	Data remains on the Hard Disk Drive	Data is cleared
Verify Job		
Stored Job		Data remains on the Hard Disk Drive
Confidential Job	Data is cleared	Data is cleared

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Re-Print Job

The Re-Print Job option allows you to store the job you are currently printing so that you can reprint it later directly from the control panel.

Follow the steps below to use the Re-Print Job option.

For Mac OS X users

1. Open the Print dialog box and select Printer Settings from the drop-down list, then click the Basic Settings tab.

2. Click the Reserve Jobs button. The Reserve Job dialog box appears.

3. Select the Reserve Job On check box, then select Re-Print Job.

4. Enter a user name and job name in the corresponding text box.

5. Click OK. The printer prints your document, then stores the print job data on the Hard Disk Drive.

For Mac OS 9 users

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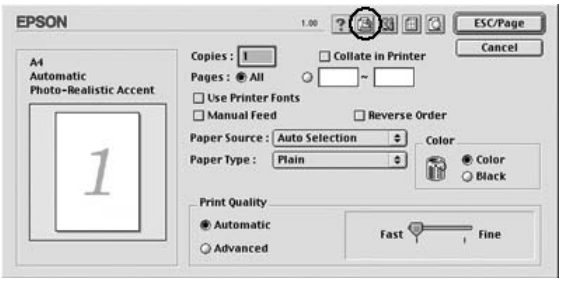
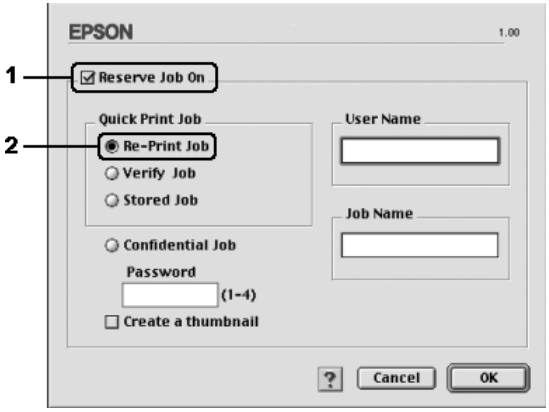
1. Make printer driver settings as appropriate for your document, open the Basic Settings menu, then click the Reserve Jobs icon. The Reserve Jobs Settings dialog box appears.



2. Select the Reserve Job On check box, then select Re-Print Job.



3. Enter a user name and job name in the corresponding text boxes.

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Note:
If you want to create a thumbnail of the first page of a job, select the Create a thumbnail *check box. Thumbnails can be accessed by entering http:// followed by the internal print server's IP address in a Web browser.*

4. Click OK. The printer prints your document, then stores the print job on the Hard Disk Drive.

To reprint or delete this data using the printer's control panel, see "Using the Quick Print Job Menu" on page 265.

Verify Job

The Verify Job option allows you to print one copy in order to verify the content before printing multiple copies.

Follow the steps below to use the Verify Job option.

For Mac OS X users

1. Open the Print dialog box and select Printer Settings from the drop-down list, then click the Basic Settings tab.

2. Click the Reserve Job button. The Reserve Job dialog box appears.

3. Select the Reserve Job On check box, then select Verify Job.

4. Enter a user name and job name in the corresponding text box.

5. Click OK. The printer prints your document and stores the print job data on the Hard Disk Drive.

For Mac OS 9 users

1. Specify the number of copies to be printed, then make other printer driver settings as appropriate for your document.

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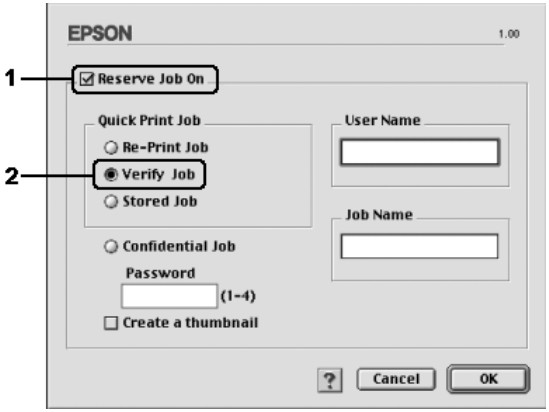
2. Open the Basic Settings dialog box, then click the Reserve Jobs icon. The Reserve Jobs Settings dialog box appears.

3. Select the Reserve Job On check box, then select Verify Job.



4. Enter a user name and job name in the corresponding text boxes.

   Note:
   If you want to create a thumbnail of the first page of a job, select the Create a thumbnail *check box. Thumbnails can be accessed by entering http:// followed by the internal print server's IP address in a Web browser.*

5. Click OK. The printer prints one copy of your document, and stores the print data with information on the number of remaining copies on the Hard Disk Drive.

After you have confirmed the printout, you can print the remaining copies or delete this data using the printer's control panel. See "Using the Quick Print Job Menu" on page 265 for instructions.

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Stored Job

The Stored Job option is useful for storing documents you print on a regular basis, such as invoices. The stored data remains on the Hard Disk Drive even if you turn off the printer or reset it using the Reset All function.

Follow the steps below to store print data using the Stored Job option.

For Mac OS X users

1. Open the Print dialog box and select Printer Settings from the drop-down list, then click the Basic Settings tab.

2. Click the Reserve Job button. The Reserve Job dialog box appears.

3. Select the Reserve Job On check box, then select Stored Job.

4. Enter a user name and job name in the corresponding text box.

5. Click OK. The printer prints your document, then stores the print job data on the Hard Disk Drive.

For Mac OS 9 users

1. Make printer driver settings as appropriate for your document, open the Basic Settings menu, then click the Reserve Jobs icon. The Reserve Jobs Settings dialog box appears.

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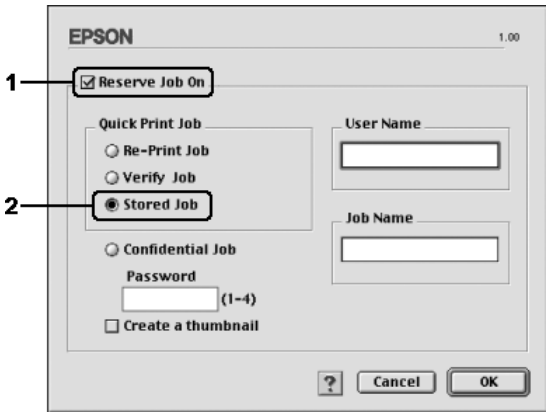
2. Select the Reserve Job On check box, then select Stored Job.



3. Enter a user name and job name in the corresponding text boxes.

   Note:
   If you want to create a thumbnail of the first page of a job, select the Create a thumbnail *check box. Thumbnails can be accessed by entering http:// followed by the internal print server's IP address in a Web browser.*

4. Click OK. The printer stores the print data on the Hard Disk Drive.

To print or delete this data using the printer's control panel, see "Using the Quick Print Job Menu" on page 265.

Confidential Job

The Confidential Job option allows you to apply passwords to print jobs stored on the Hard Disk Drive.

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Follow the steps below to store print data using the Confidential Job option.

For Mac OS X users

1. Open the Print dialog box and select Printer Settings from the drop-down list, then click the Basic Settings tab.

2. Click the Reserve Job button. The Reserve Job dialog box appears.

3. Select the Reserve Job On check box, then select Confidential Job.

4. Enter a user name and job name in the corresponding text box.

5. Set the password for the job by entering a four-digit number in the password dialog box.

   Note:
   - ❏ *Password must be four digits.*
   - ❏ *Only numbers from 1 through 4 can be used for password.*
   - ❏ *Keep password in a safe place. You must enter the correct password when printing a Confidential Job.*

6. Click OK. The printer prints your document, then stores the print job data on the Hard Disk Drive.

For Mac OS 9 users

1. Make printer driver settings as appropriate for your document, open the Basic Settings dialog box, then click the Reserve Jobs icon. The Reserve Jobs Settings dialog box appears.

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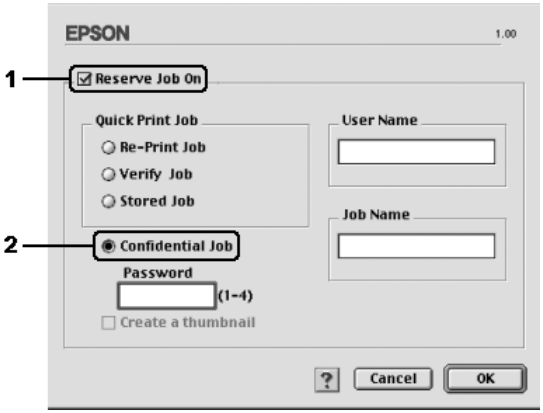
2. Select the Reserve Job On check box, then select Confidential Job.



3. Enter a user name and job name in the corresponding text boxes.

4. Set the password for the job by entering a four-digit number in the password text box.

   Note:
   - ❏ *Password must be four digits.*
   - ❏ *Only numbers from 1 through 4 can be used for password.*
   - ❏ *Keep password in a safe place. You must enter the correct password when printing a Confidential Job.*

5. Click OK. The printer stores the print job on the Hard Disk Drive.

To print or delete this data using the printer's control panel, see "Using the Confidential Job Menu" on page 266.

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Monitoring Your Printer using EPSON Status Monitor

Accessing EPSON Status Monitor

For Mac OS X users

1. Open the Applications folder on your hard disk drive, then open the Utilities folder.

2. Double-click the Printer Setup Utility (for Mac OS X 10.3) or Print Center (for Mac OS X 10.2 or below) icon.

3. Click the Utility (for Mac OS X 10.3) or Configure (for Mac OS X 10.2 or below) icon in the Printer List dialog box.

Note:
You can also access EPSON Status Monitor by clicking the EPSON Status Monitor icon in the Dock.

For Mac OS 9 users

You can access EPSON Status Monitor by selecting the EPSON Status Monitor alias from the Apple menu.

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Note:

- ❏ *The appropriate printer port must already be selected in the Chooser so that necessary information can be received from the selected printer driver when the EPSON Status Monitor starts. If the printer port is not correct, an error will occur.*

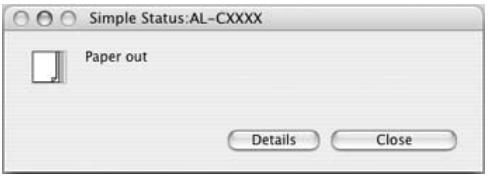
- ❏ *If you change the printer driver in the Chooser while the spool file is printing in the background, output to the printer may be disrupted.*

- ❏ *Printer and consumable products status information appears in the status window only if the Chooser is acquiring status normally.*

To find detailed information on EPSON Status Monitor, see "Simple Status" on page 178, "Detailed Status" on page 179, "Consumables Information" on page 180, "Job Information" on page 181, and "Notice Settings" on page 183.

Simple Status

The Simple Status window appears when an error or warning occurs. It indicates what type of error has occurred and offers you a possible solution. The window closes automatically once the problem is cleared.



This window will appear according to the Pop-up Notice you select in the Notice Settings dialog box.

Note:
The Simple Status window does not appear automatically while the Status *tab in the Detailed Status dialog box is displayed.*

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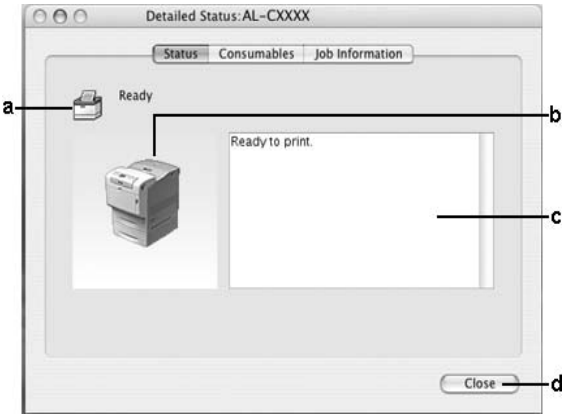
Detailed Status

You can monitor detailed printer status on the Status tab in the Detailed Status dialog box.



a.	Icon/Message:	The icon and message show the printer status.
b.	Printer image:	The image at the upper left shows the printer status graphically.
c.	Text box:	The text box next to the printer image displays the current status of the printer. When a problem occurs, the most probable solution is displayed.
d.	Close button:	Clicking this button closes the dialog box.

Note:
You can see information about jobs or consumables by clicking on the respective tab.

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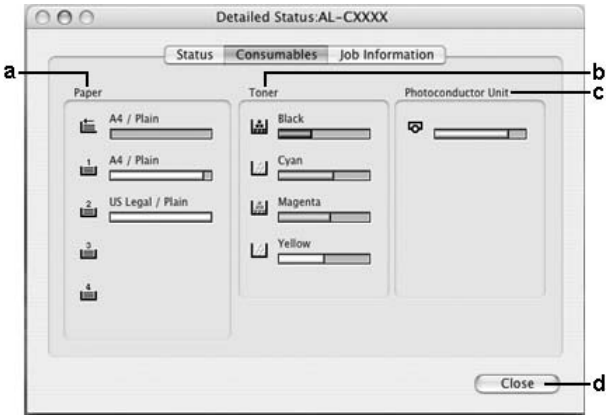
Consumables Information

You can obtain information on paper sources and consumable products on the Consumables tab in the Detailed Status dialog box.



a.	Paper:	Displays the paper size, the paper type and the approximate amount of paper remaining in the paper source. Information on the optional paper cassettes are displayed only if these options are installed. The paper cassette icon flashes when the amount of paper remaining in the cassette is low.
b.	Toner:	Indicates the amount of remaining toner. The toner icon flashes when a toner error occurs or the toner is low.

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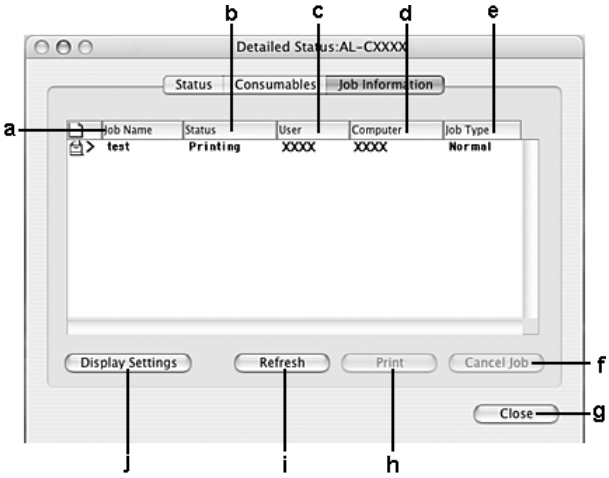
c.	Photoconductor Unit:	Indicates the remaining life of the photoconductor unit. The green level meter indicates the remaining life of the photoconductor unit that is set. The photoconductor icon flashes when an error in the photoconductor unit occurs or the photoconductor unit is near the end of its servise life.
d.	Close button:	Clicking this button closes the dialog box.

Note:
You can see the status of the printer or information about jobs by clicking on the respective tab.

Job Information

You can check job information on the Job Information tab of the Detailed Status dialog box.



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a.	Job Name:	Displays the user's print job names. Other user's print jobs are displayed as --------.	
b.	Status:	Waiting:	The print job which is waiting to be printed.
		Deleting:	The print job which is being deleted.
		Printing:	The print job which is printed currently.
		Completed:	Displays only your jobs that have finished printing.
		Canceled:	Displays only your jobs that have been canceled printing.
		Held:	Job is on hold.
c.	User:	Displays the user name.	
d.	Computer:	Displays the name of the computer that sent the print job.	
e.	Job Type:	Displays the job type. When the Reserve job function is used, the jobs are displayed as Stored, Verify, Re-Print, and Confidential respectively. About the Reserve Job function, see "Using the Reserve Job Function" on page 167.	
f.	Cancel Job button:	Selecting a print job and clicking this button, cancels the selected print job.	
g.	Close button	Clicking this button closes the dialog box.	
h.	Print button:	Display the dialog box to print the held status job.	
i.	Refresh button:	Clicking this button refreshes the information on this menu.	
j.	Display settings button	Displays the Display settings dialog box to select items to be displayed.	

Note:

You can see the status of the printer or information about consumables by clicking on the respective tab.

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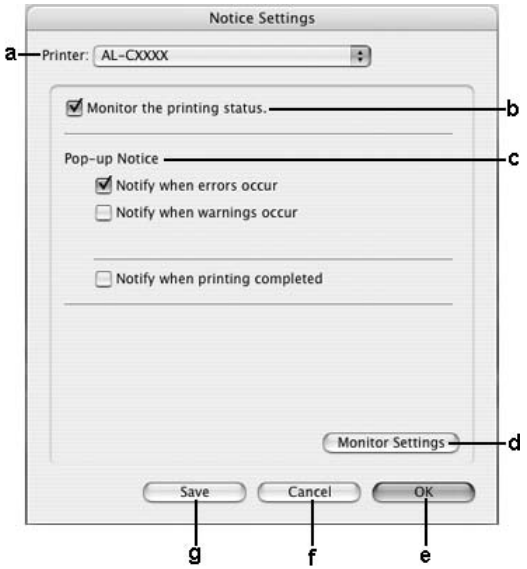
Notice Settings

To make specific monitoring settings, access EPSON Status Monitor and select Notice Settings from the file menu. The Notice Settings dialog box appears.



a.	Printrer drop-down list (Mac OS X only):	Select your printer from the drop-down list.
b.	Monitor the printer status check box:	When this check box is selected, EPSON Status Monitor monitors the printer status during a print job is processed.
c	Pop-up Notice:	Sets the notification to be displayed.
d.	Monitor Settings button:	Displays the Monitor Settings dialog box to set the monitoring interval.
e.	OK button:	Click this button to save the settings and to exit the dialog box.
f.	Cancel button:	Click this button to exit the dialog box without saving the settings.

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g.	Save button (Mac OS X only):	Saves new changes and closes the dialog box.

Setting Up the USB Connection

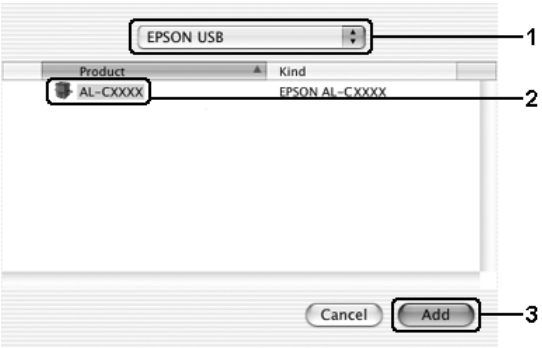
Note:
If you are connecting the USB cable to your Macintosh through a USB hub, be sure to connect using the first hub in the chain. The USB interface may be unstable depending on the hub used. If you experience problems with this type of setup, connect the USB cable directly to your computer's USB connector.

For Mac OS X users

1. Open the Applications folder on your hard drive, then open the Utilities folder and double-click the Printer Setup Utility (for Mac OS X 10.3) or Print Center (for Mac OS X 10.2 or below) icon.

2. Click Add Printer in the Printer List dialog box.

3. Select EPSON USB from the pop-up menu. Select your printer icon in the Product list, then click Add.



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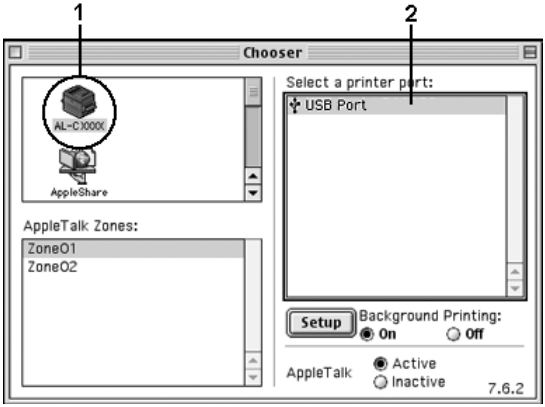
4. Close Printer Setup Utility (for Mac OS X 10.3) or Print Center (for Mac OS X 10.2 or below).

For Mac OS 9 users

1. Select Chooser from the Apple menu. Click your printer's icon, then click the USB port your printer is connected to.



2. Select Background Printing to turn background printing on or off.

   Note:

   ❏ *Background printing must be turned on for the EPSON Status Monitor to manage print jobs.*

   ❏ *When background printing is on, you can use your Macintosh while it is preparing a document for printing.*

3. Close Chooser.

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Canceling Printing

If the printouts are not what you expected and display incorrect or garbled characters or images, you may need to cancel printing. When a print job continues on the computer, follow the instruction below to cancel printing.

For Mac OS X users

Open Printer Setup Utility (for Mac OS X 10.3) or Print Center (for Mac OS X 10.2 or below) and double-click your printer from the print queue. Then, select Delete Job from the jobs menu.

For Mac OS 9 users

- ❏ Press the Period (.) key while pressing the Command key to cancel printing. Depending on applications, the message shows the procedure to cancel printing during printing. If this appears, follow instructions in the message.

- ❏ During background printing, open EPSON Status Monitor from the Application menu. Then stop printing from EPSON Status Monitor, or delete the file that is in sleep mode.

After the last page is output, the Ready (green) light on the printer turns on.

Note:
You can also cancel the current print job that is sent from your computer, by pressing the 🗑 Cancel Job button on the printer's control panel. When canceling the print job, be careful not to cancel print sent by other users.

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Uninstalling the Printer Software

When you wish to reinstall or upgrade the printer driver, be sure to uninstall the current printer software beforehand.

For Mac OS X users

1. Quit all applications, and restart your Macintosh.
2. Insert the EPSON printer software CD-ROM in your Macintosh.
3. Double-click the Mac OS X folder.
4. Double-click the Printer Driver folder.
5. Double-click your printer's icon.

   Note:
   If the Authorization dialog box appears, enter the Password or phrase, *then click* OK.

6. When the software license agreement screen appears, read the statement, then click Accept.
7. Select Uninstall from the menu at the upper left, then click Uninstall.

Follow the on-screen instructions.

For Mac OS 9 users

1. Quit all applications, and restart your Macintosh.

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2. Insert the EPSON printer software CD-ROM in your Macintosh.

3. Double-click the English folder, then double-click Disk 1 folder inside the Printer Driver folder.

4. Double-click the Installer icon.

5. Click Continue. When the software license agreement screen appears, read the statement, then click Accept.

6. Select Uninstall from the menu at the upper left, then click Uninstall.

Follow the on-screen instructions.

Sharing the Printer on a Network

Sharing the printer

This section describes how to share the printer on an AppleTalk network.

The computers on the network can share the printer that is directly connected to one of them. The computer that is directly connected to the printer is the print server, and the other computers are the clients which need permission to share the printer with the print server. The clients share the printer via the print server.

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For Mac OS X users

Use the Printer Sharing setting, which is a standard feature of Mac OS X 10.2 or later.

See your operating system's documentation for details.

For Mac OS 9 users

Setting up your printer as a shared printer

Follow the steps below to share a printer connected directly to your computer with other computers on an AppleTalk network.

1. Turn on the printer.

2. Select Chooser from the Apple menu, then click your printer's icon. Select USB port or FireWire port in the "Select a printer port" box on the right, then click Setup. The Printer Setup dialog box appears.

   Note:
   Make sure On *is selected under Background Printing.*

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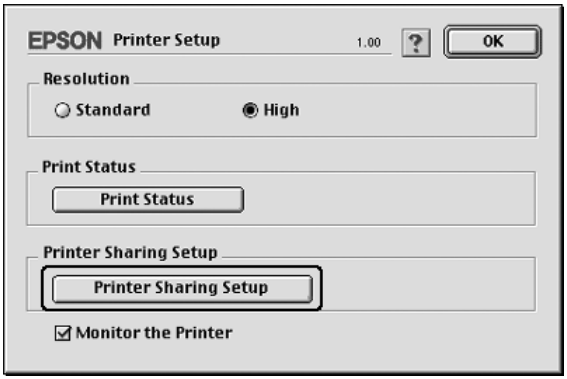
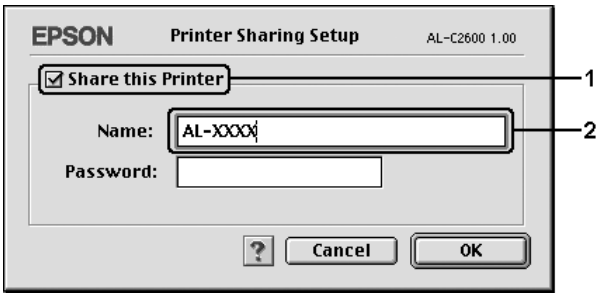
3. Under Printer Sharing Set Up, click Printer Sharing Setup.



4. The Printer Sharing dialog box appears. Select the Share this Printer check box, then type the printer name and password information as needed.



5. Click OK to apply the settings.

6. Close Chooser.

Accessing the shared printer

Follow the steps below to access your printer from another computer on the network.

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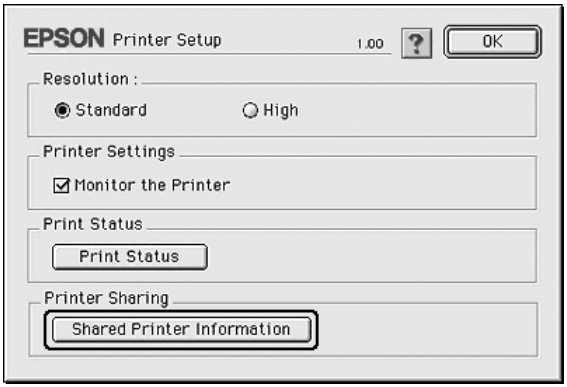
1. Turn on your printer.

2. On each computer from which you want to access the printer, select Chooser from the Apple menu. Click your printer's icon, then select the name of the shared printer in the "Select a printer port" box on the right. You can only select from the printers connected to your current AppleTalk zone.

   Note:
   Make sure On *is selected under Background Printing.*

3. Click Setup, enter the password for the printer, then click OK. The Printer Setup dialog box appears. Under Printer Sharing Set Up, click Shared Printer Information.



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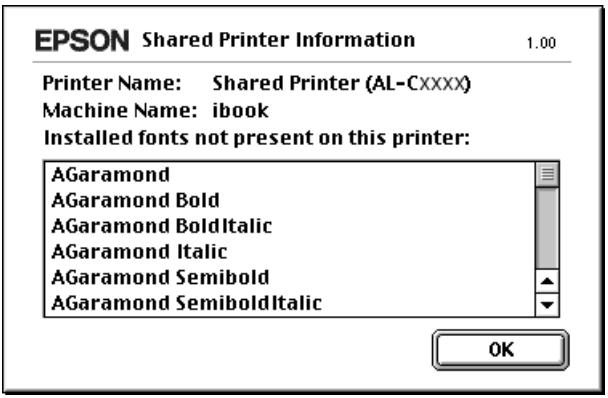
4. The following type of message appears if the client has fonts that are unavailable on the print server.



5. Click OK to close the message.

6. Close Chooser.

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Chapter 6

Using the PostScript Printer Driver

About the PostScript 3 Mode

Features

The Adobe PostScript 3 mode provides you with the following high- performance features:

- ❏ Ability to print documents formatted for PostScript printers. You can easily print text, line art, and graphics.
- ❏ Seventeen fonts in five font families. The fonts include: Courier, Helvetica, Helvetica Narrow, Symbol, and Times.
- ❏ IES (Intelligent Emulation Switch) and SPL (Shared Printer Language) support to allow the printer to switch between the PostScript mode and other emulations as print data is received at the printer.
- ❏ EPSON quality, reliability, and ease of operation.

Hardware requirements

Your printer must meet the following hardware requirements to be able to use the PostScript 3 printer driver.

Memory requirements for using the PostScript 3 printer driver are shown below. Install optional memory modules into your printer if the amount of memory currently installed does not meet your printing needs.

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Minimum memory	Recommended memory
128 MB* (for duplex printing of image data in full color at 300 dpi)	256 MB (for duplex printing of image data in full color at 600 dpi)

* Printing may not be possible with this amount of memory, depending on the specifics of the job being printed.

System requirements

Your computer must meet the following system requirements to be able to use the Adobe PostScript 3 printer driver.

For Windows

To use the Adobe PostScript 3 printer driver, your computer must be running Microsoft Windows XP, Me, 98, or 2000. See the following table for details.

Windows XP or 2000

There are no restrictions for these systems.

Windows Me or 98

	Minimum	Recommended
Computer	i386, i486, or Pentium processor	i486 or Pentium processor
Hard Disk	6 MB free (for driver installation)	8 MB free (for driver installation)
Memory	8 MB	16 MB

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For Macintosh

Any Macintosh computer to which the printer is connected must be running Mac OS 9 ver. 9.1 or later, or Mac OS X ver. 10.2.x or later. See the following table for details.

Mac OS X

	Minimum	Recommended
Computer	Power Mac G3, G4, G5, iMac, eMac, PowerBook G3, G4, or iBook	
Hard Disk	—	
Memory	128 MB	

Note:
To use binary data, Epson recommends that you use AppleTalk for the printer's network connection. If you use a protocol other than AppleTalk for the network connection, you need to set `Binary` *to* `On` *in the* `PS3 Menu` *on the control panel. If you use the printer with a local connection, you cannot use binary data.*

Mac OS 9

	Minimum	Recommended
Computer	Power PC	
Hard Disk	3.1 MB free (for driver installation)	4 MB free (for driver installation)
Memory	4 MB	32 MB

Note:
To use binary data, Epson recommends that you use AppleTalk for the printer's network connection. If you use a local connection or a protocol other than AppleTalk for the network connection, you cannot use binary data.

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Caution:

- ❏ *The Adobe PostScript 3 printer driver cannot be used on computers running System 9.0.x or below.*
- ❏ *The Adobe PostScript 3 printer driver cannot be used on Macintosh 68K computers.*

Note:
For best results, you should connect the printer directly to the computer's USB port. If multiple USB hubs must be used, we recommend that you connect the printer to the first-tier hub.

Using the PostScript Printer Driver with Windows

To print in the PostScript mode, you will have to install the printer driver. See the appropriate sections below for installation instructions according to the interface that you are using to print.

Installing the PostScript printer driver for the parallel interface

Follow the steps below to install the PostScript printer driver for the parallel interface.

Caution:
Never use EPSON Status Monitor and Postcript 3 driver at the same time when the printer is connected via a parallel port. It may damage the system.

Note:

- ❏ *Installing the printer software for Windows XP or 2000 may require administrator privileges. If you have problems, ask your administrator for more information.*

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❏ *Turn off all virus protection programs before installing the printer software.*

1. Make sure that the printer is turned off. Insert the printer software CD-ROM into your CD-ROM drive.

2. For Windows 2000, Me, or 98, click Start, point to Settings, and click Printers. Then double-click the Add Printer icon.
   For Windows XP, click Start, point to Printer and Faxes, and click Add a printer in the Printer Tasks menu.

3. The Add Printer Wizard appears. Then click Next.

4. For Windows Me or 98, go to step 6.
   For Windows XP or 2000, select Local printer, then click Next.

   Note:
   For Windows XP or 2000, do not select the Automatically detect and install my Plug and Play printer *check box.*

5. Select LPT1 as the port the printer is connected to, then click Next.

6. Click Have Disk and specify the following path for the CD-ROM. If your CD-ROM drive is D:, the path will be D:\ADOBEPS\ENGLISH\Folder Name\PS_SETUP
   Then click OK.

   Note:
   ❏ *Change the drive letter as needed for your system.*

   ❏ *The folder name differs depending on your operating system version.*

Operating system version	Folder Name
Windows Me or 98	WIN9X
Windows XP or 2000	WIN2K_XP

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7. Select the printer, then click Next.

8. For Windows Me or 98, select LPT1 as the port the printer is connected to, then click Next.
   For Windows XP or 2000, go to the next step.

9. Follow the on-screen instructions for the rest of the installation.

10. When installation is done, click Finish.

Installing the PostScript printer driver for the USB interface

Follow the steps below to install the PostScript printer driver for the USB interface.

Caution:
Never use EPSON Status Monitor and Postcript 3 driver at the same time when the printer is connected via a USB port.

Note:

- *For Windows Me or 98, if the Windows driver and the Adobe PS driver for Epson printers with a USB connection have already been installed on your computer, follow the installation procedure "Installing the PostScript printer driver for the parallel interface" on page 196, but make sure to select USB as the port in step 5. If you have not installed an Epson USB printer driver on your computer, follow the installation procedure below.*

- *Installing the printer software for Windows XP or 2000 may require administrator privileges. If you have problems, ask your administrator for more information.*

- *Turn off all virus protection programs before installing the printer software.*

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1. Make sure that the printer is turned off. Insert the printer software CD-ROM into your CD-ROM drive.

2. Connect your computer to the printer with a USB cable, then turn on the printer.

3. Install the USB Device Driver.

   For Windows Me, select Automatic search for a better driver (Recommended), click Next, then go to step 6.

   For Windows 98, click Next in the Add New Hardware Wizard. Select Search for best driver for your device (Recommended), then click Next.

   Note:
   For Windows XP or 2000, a USB Device Driver is installed automatically. Go to step 7.

4. Select Specify a location, then specify the following path for the CD-ROM. If your CD-ROM drive is D:, the path will be D:\ADOBEPS\ENGLISH\WIN9X\PS_SETUP Then click Next.

   Note:
   Change the drive letter as needed for your system.

Operating system version	Folder Name
Windows Me or 98	WIN9X
Windows XP or 2000	WIN2K_XP

5. Click Next to continue.

6. When installation of the USB Device Driver is done, click Finish.

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7. Install the printer driver by following the on-screen instructions. See "Installing the PostScript printer driver for the parallel interface" on page 196 for details.

Installing the PostScript printer driver for the network interface

See the appropriate sections below according to your operating system, and follow the instructions to install the PostScript printer driver for the network interface.

Note:

- ❏ *Set the network settings before installing the printer driver. Refer to the Network Guide that comes with your printer for details.*
- ❏ *Turn off all virus protection programs before installing the printer software.*

For Windows XP or 2000 users

1. Make sure that the printer is turned on. Insert the printer software CD-ROM into your CD-ROM drive.
2. For Windows 2000, click Start, point to Settings, and click Printers. Then double-click the Add Printer icon.
   For Windows XP, click Start, point to Printer and Faxes, and click Add a printer in the Printer Tasks menu.
3. The Add Printer Wizard appears. Then click Next.
4. Select Local printer, then click Next.

   Note:
   Do not select the Automatically detect and install my Plug and Play printer *check box.*

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5. Select the Create a new port check box and select Standard TCP/IP Port from the drop-down list. Click Next.

6. Click Next to continue.

7. Specify the IP address and port name, then click Next.

8. Click Finish.

9. Click Have Disk in the Add Printer Wizard and specify the following path for the CD-ROM. If your CD-ROM drive is D:, the path will be D:\ADOBEPS\ENGLISH\WIN2K_XP\PS_SETUP. Then click OK.

   Note:
   Change the drive letter as needed for your system.

10. Select the printer and click Next.

11. Follow the on-screen instructions for the rest of the installation.

12. When installation is done, click Finish.

For Windows Me or 98 users

1. Install the EpsonNet Print. Refer to "Installing EpsonNet Print" in the *Network Guide* to find the instructions.

2. Install the printer driver. See "Installing the PostScript printer driver for the parallel interface" on page 196 for details.

3. Set the printer port to EpsonNet Print Port. Refer to "Configuring the Printer Port" in the *Network Guide* to find the instructions.

Note:
High-speed Printing (RAW) is not supported.

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Accessing the PostScript printer driver

You can access the PostScript printer driver directly from any application programs, from your Windows operating system.

The printer settings made from many Windows applications override the setting made when the printer driver is accessed from the operating system, so you should access the printer driver from your application to make sure that you get the result you want.

From the application

To access the printer driver, click the Print or Page Setup from the File menu. You also need to click Setup, Options, Properties, or a combination of these buttons.

For Windows XP users

To access the printer driver, click Start, click Printers and Faxes, then click Printers. Right-click your printer icon, then click Printing Preferences.

For Windows Me or 98 users

To access the printer driver, click Start, point to Settings, then click Printers. Right-click your printer icon, then click Properties.

For Windows 2000 users

To access the printer driver, click Start, point to Settings, then click Printers. Right-click your printer icon, then click Printing Preferences.

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Making changes to PostScript printer settings

You can change the PostScript printer settings in the PostScript printer driver. Online help is available to help you with the printer driver settings.

Using online help

If you want help on a particular item, click the "?" icon on the top-right corner of the dialog box's title bar, then click the name of the setting that you want more information on. An explanation of the setting and its options will be displayed.

Notice for Windows Me or 98 Users

The printer may not print normally if the computer is connected to the printer via the parallel interface and the ECP mode is set. If this is the case, disable bi-directional support in the printer driver. To do so, display the printer's Properties dialog box, click the Details tab, then click Spool Settings. In the Spool Settings dialog box that appears, Select Disable bi-directional support for this printer, then click OK.

Using the Reserve Job function

The Reserve Job function allows you to store print jobs on the printer's Hard Disk Drive and to print them later directly from the printer's control panel.
See "Using the Reserve Job Function" on page 96 for details.

Note:

- *You need an optional Hard Disk Drive installed in your printer in order to use the Reserve Job function. Make sure that the drive is correctly recognized by the printer driver before you start using the Reserve Job function.*

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- ❏ *The Reserve Job function is not available when the* Binary *setting is set to* On *in the* PS3 Menu.

- ❏ *The Reserve Job function cannot be used when you are printing using the AppleTalk protocol in Windows 2000.*

- ❏ *Make sure to clear the Job Management On check box on the Job Settings sheet when outputting data as a PS file. The Job Management check box is selected by default so that the job information is attached to the print data when it is sent to the printer.*

Follow the steps below to use the Reserve Job function when printing from any application.

1. Click Print from the application's File menu.

2. Click Properties, then click the Job Settings tab.

3. Specify the desired Reserve Job settings in the dialog box that appears.

4. When printing multiple copies, select the Collated check box in the Advanced settings of the printer driver.

5. When you are done with the settings, then click Print.

Using AppleTalk under Windows 2000

Use the following settings if your machine is running Windows 2000, and the printer is connected through an network interface using the AppleTalk protocol:

- ❏ Use SelecType to set the Emulation Mode-Network item to PS3. Using the default Auto setting will cause an extra, unneeded page to be printed.

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- ❏ On the Device Settings sheet of the printer's Properties dialog box, make sure that SEND CTRL-D Before Each Job and SEND CTRL-D After Each Job are set to No.

- ❏ TBCP (Tagged binary communications protocol) cannot be used as the Output Protocol setting.

- ❏ On the Job Settings sheet of the printer's Properties dialog box, make sure to clear the Job Management On check box.

Using the PostScript Printer Driver with Macintosh

Installing the PostScript printer driver

Follow the steps below to install the PostScript printer driver.

Note:
Make sure that no applications are running on your Macintosh before installing the printer driver.

For Mac OS X users

Note:
Make sure that Printer Setup Utility *(for Mac OS X 10.3) or* Print Center *(for Mac OS X 10.2) is not open.*

1. Insert the printer software CD-ROM into your CD-ROM drive.

2. Double-click the CD-ROM icon.

3. Double-click Mac OS X, then double-click PS Installer.

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Note:
For Mac OS X 10.2, if the Authenticate window appears, enter the user name and password for an administrator.

4. The Install EPSON PostScript Software screen appears, click Continue, then follow the on-screen instructions.

5. Easy Install is displayed on the screen. Click Install.

   Note:
   For Mac OS X 10.3, if the Authenticate window appears, enter the user name and password for an administrator.

6. When installation is done, click Close.

For Mac OS 9 users

1. Insert the printer software CD-ROM into your CD-ROM drive.

2. Double-click the CD-ROM icon.

3. Double-click Mac OS 9, then double-click English.

4. Double-click AdobePS 8.7, and double-click AdobePS Installer. Then follow the on-screen instructions.

5. Select Easy Install, then click Install.

6. When installation is done, click Quit.

   Note:
   If you are connecting two or more EPSON printers of the same model using AppleTalk, and you want to rename the printer, see the Network Guide.

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Selecting the printer

After installing the PostScript 3 printer driver, you need to select the printer.

Selecting the printer when it is connected via a USB connection for Mac OS 9 users

If the printer is connected to your computer via a USB port, you will not be able to select the printer from the Chooser. You will have to launch the Apple Desktop Printer Utility, then register the printer as a Desktop Printer. The Desktop Printer Utility is automatically installed when you install the Adobe PostScript printer driver. Follow the steps below to select the printer and to create a Desktop Printer.

Note:
When printing via the USB port from a Power Macintosh running Mac OS 9, the printer must be set to handle ASCII data. To specify this setting, select Print *from the File menu of the application that you are using, then select the name of the application from the options available in the Print dialog box. On the setup option page that appears, select ASCII for the data format setting. The actual setting name varies by application, but is often called Encoding or Data.*

1. Open the AdobePS Components folder in your hard disk, then double-click the Desktop Printer Utility.

2. The New Desktop Printer dialog box appears. Select AdobePS from the With pop-up menu, click Printer (USB) in the Create Desktop list, then click OK.

3. Click Change in USB Printer Selection.

4. The USB Printer dialog box appears. Select your printer from the list of connected USB printers, then click OK.

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5. Click Auto Setup to select the PostScript Printer Description (PPD) file. When a PPD file is selected, the selected printer name will be displayed under the printer icon. If the printer name is incorrect, click Change, then select the correct PPD file.

6. After the USB printer and PPD file have been selected, click Create. A warning message suggesting to save changes to desktop printer appears. Select Save.

7. Select Save to continue. The USB printer icon will be displayed on the desktop.

Selecting a printer in a network environment

If the printer is connected through the Ethernet interface or an optional network card.

For Mac OS X users

Follow the steps below to select the printer.

Note:

- ❏ *You cannot use FireWire for printer connection in the PostScript 3 mode. Although* EPSON FireWire *appears in the interface pop-up list, it cannot be used with the PostScript 3 printer driver.*

- ❏ *You need to make the settings for your installed options manually when the printer is connected using USB, IP printing, or Rendezvous. When the printer is connected using AppleTalk, the printer software automatically makes the settings.*

- ❏ *Make sure to specify ASCII as the data format in the application.*

1. Open the Applications folder, open the Utilities folder, then double-click Printer Setup Utility (for Mac OS X 10.3) or Print Center (for Mac OS X 10.2).
   The Printer List window appears.

2. Click Add in the Printer List window.

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3. Select the protocol or the interface that you are using from the pop-up list.

   Note for Appletalk users:
   Make sure to select AppleTalk. *Do not select* EPSON AppleTalk, *because it cannot be used with the PostScript 3 printer driver.*

   Note for IP Printing users:
   - ❏ *Make sure to select* IP Printing. *Do not select* EPSON TCP/IP, *because it cannot be used with the PostScript 3 printer driver.*
   - ❏ *After selecting* IP Printing, *enter the IP address for the printer, then make sure to select the* Use default queue on server *check box.*

   Note for USB users:
   Make sure to select USB. *Do not select* EPSON USB, *because it cannot be used with the PostScript 3 printer driver.*

4. Follow the instructions as appropriate below to select your printer.

   AppleTalk
   Select your printer from the Name List, then select Auto Select from the Printer Model List.

   IP Printing
   Select Epson from the Name List, then select your printer from the Printer Model List.

   USB
   Select your printer from the Name List, then select your printer from the Printer Model List.

   Note for Mac OS X 10.3 users
   If ESC/Page driver is not installed, your printer model is automatically selected in the Printer Model List when you select your printer from the Name List while the printer is on.

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Rendezvous
Select your printer, the printer name is followed by (PostScript), from the Name List. Your printer model is automatically selected in the Printer Model List.

Note for USB (for Mac OS X 10.2) or Rendezvous users:
If your printer model is not automatically selected in the Printer Model list, you need to reinstall the PostScript printer driver. See "Installing the PostScript printer driver" on page 205.

5. Click Add.

   Note for IP Printing users, USB or Rendezvous users:
   Select your printer from the Printer list, then select Show Info *from the Printers menu. The Printer Info dialog box appears. Select* Installable Options *from the pop-up list, then make the necessary settings.*

6. Confirm that your printer's name is added to the Printer List. Then quit Printer Setup Utility (for Mac OS X 10.3) or Print Center (for Mac OS X 10.2).

For Mac OS 9 users

Follow the steps below to select the printer.

1. Select Chooser from the Apple menu.

2. Make sure that AppleTalk is active.

3. Click the AdobePS icon and select the network to be used in the AppleTalk Zone box. Your printer appears in the Select a PostScript Printer box.

   Note:
   By default, the six-digit MAC address is displayed after the printer name if the printer is connected through an optional network card. Refer to your network card manual for details.

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4. Click your printer. The Create button appears.

   Note:
   If your computer is connected to more than one AppleTalk zone, click the AppleTalk zone your printer is connected to in the AppleTalk Zones *list.*

5. Click Create.

Accessing the PostScript printer driver

To control your printer and change its settings, use the printer driver. The printer driver allows you to easily make all the print settings, including paper source, paper size, and orientation.

For Mac OS X users

To access the PostScript printer driver, register your printer in Printer Setup Utility (for Mac OS X 10.3) or Print Center (for Mac OS X 10.2), click Print on the file menu of any application, then select your printer.

For Mac OS 9 users

To access the PostScript printer driver, select Chooser from the Apple menu, then click the AdobePS icon.
Select Print on the file menu of any application.

Making changes to PostScript printer settings

You can change the PostScript printer settings in the PostScript printer driver. Balloon help is available to help you with the printer driver settings.

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Using Balloon Help

Follow the steps below to use Balloon Help.

1. Click the Help menu, then select Show Balloons.

2. Place your cursor over the item that you need help with. Information on that item is displayed inside a floating balloon.

Changing the printer setup settings

You can change or update the printer setup settings according to the options installed in your printer.

Note for Mac OS X users:
When Super Fine *is selected as the resolution, the following functions in the printer driver cannot be used.*

Color Model:	RGB
Screen:	Auto (Gradation), Auto (Definition)

For Mac OS X users

Follow the steps below to change the settings.

1. Access the printer driver. The Printer List window appears.

2. Select the printer from the list.

3. Select Show Info from the Printers menu. The Printer Info dialog box appears.

4. Make necessary changes to the settings, then close the dialog box.

5. Quit Printer Setup Utility (for Mac OS X 10.3) or Print Center (for Mac OS X 10.2).

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For Mac OS 9 users

Follow the steps below to change the settings.

1. Access the printer driver.
2. Click the Printing menu, then select Change Setup.
3. Change the settings using the pop-up menus.

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Chapter 7

Using the Control Panel

Using the Control Panel Menus

You can use the printer's control panel to access a variety of menus that allow you to check the status of consumable products, print status sheets, and make printer settings. This section describes how to use the control panel menus, and when it is appropriate to make printer settings using the control panel.

When to make control panel settings

In general, printer settings can be made from the printer driver, and do not need to be made using the control panel. In fact, printer driver settings override settings made using the control panel, so use the control panel menus only to make settings you cannot make in your software or printer driver, including the following:

- ❏ Changing the emulation modes and selecting the IES (Intelligent Emulation Switching) mode
- ❏ Specifying a channel and configuring the interface
- ❏ Choosing the size of the memory buffer used to receive data

How to access the control panel menus

For a complete description of the items and settings available in the control panel menus, see "Control Panel Menus" on page 216.

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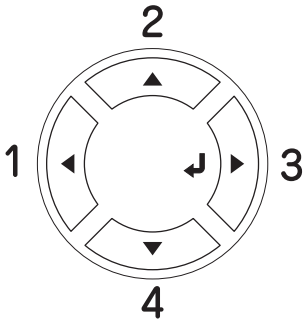
1. When the printer's Ready light is on, press the Enter button to access the control panel menus.



2. Use the ▲ Up and ▼ Down buttons to scroll through the menus.

3. Press the Enter button to view the items in a menu. Depending on the menu, the LCD panel displays an item and the current setting separated (▲▼YYYY=ZZZZ), or only an item (▲▼YYYY).

4. Use the ▲ Up and ▼ Down buttons to scroll through the items, or press the ◀ Back button to return to the previous level.

5. Press the Enter button to carry out the operation indicated by an item, such as printing a status sheet or resetting the printer, or to view the settings available for an item, such as paper sizes or emulation modes.

   Use the ▲ Up and ▼ Down buttons to scroll through available settings, then press the Enter button to select a setting and return to the previous level. Press the ◀ Back button to return to the previous level without changing the setting.

   Note:
   You need to turn the printer off and then on to activate some settings. For details, see "Control Panel Menus" on page 216.

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6. Press the ○ Start/Stop button to exit the control panel menus.

Control Panel Menus

Press the ▲ Up and ▼ Down buttons to scroll through the menus. The menus and menu items appear in the order shown below.

Note:
Some menus and items appear only when a corresponding optional device is installed or an appropriate setting has been done.

Information Menu

From this menu you can check the toner level and the remaining service life of consumable products. You can also print status and sample sheets showing the printer's current settings, available fonts, and a brief summary of available features.

Press the ▼ Down or ▲ Up button to select an item. Press the Enter button to print a sheet or font sample.

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Item	Settings (default in bold)
Status Sheet	-
Reserve Job List*1	-
Form Overlay List*2	-
Network Status Sheet*3	-
Color Regist Sheet	-
AUX Status Sheet*4	-
USB Ext I/F Status Sheet*5	-
PS3 Status Sheet	-
PS3 Font List	-
P5C Font Sample*6	-
ESCP2 Font Sample	-
FX Font Sample	-
I239X Font Sample	-
C/M/Y/K Toner	E******F
Photocon	E******F
Transfer	E******F
Fuser	E******F
Total Pages	0 to 99999999
Color Pages	0 to 99999999
B/W Pages	0 to 99999999

*1 Available only when the jobs are stored by using the Quick Print Job feature.

*2 Available only when Form Overlay data exists.

*3 Available only when the NetworkI/F setting in Network Menu is set to On.

*4 Available only when an optional Type B interface card is installed and the printer has been turned on when the AUX I/F setting is set to On.

*5 Available only when the printer is connected to a USB device with D4 support and has been turned on when the USB I/F setting is set to On.

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*6 Available only when an optional P5C module is installed.

Status Sheet, AUX Status Sheet, PS3 Status Sheet

Prints a sheet showing the current printer settings and installed options. These sheets can be useful to confirm whether options have been installed correctly.

Reserve Job List

Prints a list of reserved print jobs stored on the optional Hard Disk Drive.

Form Overlay List

Prints a list of the form overlays stored on the optional Hard Disk Drive.

Network Status Sheet

Prints a sheet showing the working status of the network.

Color Regist Sheet

Prints a sheet to check and adjust the registration position of each color (Yellow, Cyan, and Magenta). If you notice a misalignment of colors, use this sheet to adjust the alignment as explained in "Setup Menu" on page 224.

USB ExtI/F Status Sht

Prints a sheet showing the working status of the USB interface.

PS3 Font List, P5C Font Sample, ESCP2 Font Sample, FX Font Sample, I239X Font Sample

Prints a sample of the fonts available for your selected printer emulation.

C Toner/M Toner/Y Toner/K Toner/Photocon

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Displays the amount of toner left in the toner cartridges, and the remaining service life of the photoconductor unit, as shown below:

E******F	(100 to 83%)
E***** F	(83 to 86%)
E**** F	(66 to 50%)
E*** F	(50 to 33%)
E** F	(33 to 16%)
E* F	(16 to 0%)
E F	(0%)

Total Pages

Displays the total number of pages printed by the printer.

Color Pages

Displays the total number of pages printed in color by the printer.

B/W Pages

Displays the total number of pages printed in black-white by the printer.

Tray Menu

This menu allows you to specify the size and type of paper loaded in the MP tray. Accessing this menu also lets you check the size of the paper currently loaded in the lower paper cassettes.

The paper type settings in this menu can also be made from your printer driver. Settings you make in your printer driver override these settings, so use your printer driver whenever you can.

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Item	Settings (default in bold)
MP Tray Size	**A4**[*1], A5, B5, **LT**[*1], HLT, LGL, GLT, GLG, EXE, F4, DL, IB5
LC1 Size[*2]/LC2 Size[*2]/LC3 Size[*2]/LC4 Size[*2]	A4, A5, B5, LT, LGL, GLG, EXE
MP Type	**Plain**, SemiThk, Letterhead, Recycled, Color, Transprncy, Labels
LC1 Type/LC2 Type[*2]/LC3 Type[*2]/LC4 Type[*2]	**Plain**, SemiThk, Letterhead, Recycled, Color

[*1] Default setting varies according to the country of purchase.

[*2] Available only when the optional paper cassette unit is installed.

MP Tray Size

Select your paper size from this menu.

When Auto is selected, all kinds of available paper size are detected automatically. Select the proper size to use other size paper.

LC1 Size/LC2 Size/LC3 Size/LC4 Size

Displays the paper size loaded in the standard and optional paper cassettes.

MP Type

Lets you set the paper type loaded in the MP tray.

LC1 Type/LC2 Type/LC3 Type/LC4 Type

Lets you select the paper type loaded in the standard and optional lower cassettes.

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Emulation Menu

Use this menu to select the printer emulation mode. You can specify different emulations for each interface; in other words, for each computer you connect the printer to. Since each emulation mode has its own specific options, make settings in the ESC P2, FX, or I239X menu, as necessary. The settings you can choose from are the same for every interface.

Item	Settings (default in bold)
Parallel	**Auto**, ESCP2, FX, I239X, PS3, P5C*2
USB	**Auto**, ESCP2, FX, I239X, PS3, P5C*2
Network	**Auto**, ESCP2, FX, I239X, PS3, P5C*2
AUX*1	**Auto**, ESCP2, FX, I239X, PS3, P5C*2

*1 Available only when an optional Type-B interface card is installed.

*2 Available only when an optional P5C module is installed.

Printing Menu

This menu allows you to make standard print settings, such as Page Size and Orientation, when printing from an application or operating system that does not support your printer driver. Be sure to use the printer driver to make these settings whenever you can, since settings made on your computer always override these settings.

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Item	Settings (default in bold)
Page Size	**A4**, B5, A5, LT, HLT, LGL, GLT, GLG, EXE, F4, DL, IB5, CTM*1
Wide A4	**Off**, On
Orientation	**Port**, Land
Resolution	300, **600**, 1200*2
RITech	**On**, Off
Toner Save	**Off**, On
Image Optimum	**Auto**, Off, On
Top Offset	-99.0 ... **0.0** ... 99.0 mm in 0.5 increments
LeftOffset	-99.0 ... **0.0** ... 99.0 mm in 0.5 increments
T Offset B	-99.0 ... **0.0** ... 99.0 mm in 0.5 increments
L Offset B	-99.0 ... **0.0** ... 99.0 mm in 0.5 increments

*1 Custom-size paper is 88.9 × 139.7 mm at the minimum and 220 × 355.6 mm at the maximum, but EPSON recommends printing on paper that is not wider than 207.9 mm.

*2 Not available in optional P5C mode.

Page Size

Specifies the paper size.

Wide A4

Selecting On decreases the left and right margins from 4 mm to 3.4 mm.

Orientation

Specifies whether the page is printed in portrait or landscape orientation.

Resolution

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Specifies the printing resolution.

RITech

Turning RITech on produces smoother and crisper lines, text, and graphics.

Toner Save

When this setting is selected, the printer saves toner by substituting a gray shade for the black inside of characters. The characters are outlined in full black on the right and lower edges.

Image Optimum

When this mode is on, the quality of graphics is reduced. It reduces the amount of graphics data when the data reaches the memory limit, allowing complex documents to be printed.

Top Offset

Makes fine adjustments to the vertical printing position of the page.

Caution:
Make sure that the printed image does not extend beyond the edge of the paper. Otherwise, you may damage the printer.

Left Offset

Makes fine adjustments to the horizontal printing position of the page. This is useful for fine adjustments.

Caution:
Make sure that the printed image does not extend beyond the edge of the paper. Otherwise, you may damage the printer.

T Offset B

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Adjusts the vertical printing position on the back of the paper when printing on both sides. Use this if the printout on the back is not where you expected.

L Offset B

Adjusts the horizontal printing position on the back of the paper when printing on both sides. Use this if the printout on the back is not where you expected.

Setup Menu

This menu allows you to make various basic configuration settings related to paper sources, feeding modes, and error handling. You can also use this menu to select the LCD panel display language.

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Item	Settings (default in bold)
Lang	**English**, Français, Deutsch, Italiano, ESPAÑOL, SVENSKA, Dansk, Nederlands, SUOMI, Português, Norsk, 中文, 繁體中文, 한국어
Time to Sleep	5, 15, 30, **60**, 120, 180, 240 Min
Time Out	0, 5 to **60** to 300 in increments of 1
Paper Source	**Auto**, MP, LC1, LC2*1, LC3 *1, LC4*1
MP Mode	**Normal**, Last
Manual Feed	**Off**, 1st page, Each Page
Copies	**1** to 999
Duplex*2	**Off**, On
Binding	**Long Edge**, Short Edge
Start Page	**Front**, Back
Paper Type	**Normal**, SemiThk, Thick, ExtraThk, Transparency
Page Side	**Front**, Back
Skip Blank Page*3	**Off**, On
Auto Eject Page	**Off**, On
Size Ignore	**Off**, On
Auto Cont	**Off**, On
Page Protect*4	**Auto**, On
LCD Contrast	0 to **7** to 15

*1 Available only when the optional paper cassette unit is installed.

*2 Available only when you use A4, A5, B5, LT, LGL, EXE, or GLG size paper.

*3 Available only for ESC/Page, ESC/P2, FX, or I239X mode.

*4 Not available when an optional P5C module is installed.

Lang

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Specifies the language displayed on the LCD panel and that printed on the status sheet.

Time to Sleep

Specifies the length of time until the printer enters the sleep mode if there are no button operations.

Time Out

Specifies the length of the time, in seconds, before a time out when interfaces are being switched automatically. The time before a time out occurs is the length of time from the point when no data is being received from an interface until the point of switching the interface. If the printer has a print job when switching the interface, the printer prints the print job.

Paper Source

Specifies whether paper feeds into the printer from the MP tray or the optional lower paper cassette unit.

If you select Auto, paper feeds from the paper source containing paper that matches your Paper Size setting.

If an envelope size (DL, IB5) is selected as the Page Size setting, paper always feeds from the MP tray. If you select Thick, ExtraThk, or Trnsprnc as the Paper Type setting, paper always feeds from the MP tray.

MP Mode

This setting determines whether the MP tray has the highest or lowest priority when Auto is selected as the Paper Source setting in the printer driver. When Normal is selected as the MP Mode, the MP tray has the highest priority as the paper source. If you select Last, the MP tray has the lowest priority.

Manual Feed

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Allows you to select the manual feed mode for the MP tray.

Copies

Designates the number of copies to be printed, from 1 through 999.

Duplex

Turns duplex printing on or off.

Binding

Specifies the binding direction of the printout.

Start Page

Specifies whether printing starts from the front or back of the page.

Paper Type

Specifies the type of paper to be used for printing. The printer adjusts the printing speed according to this setting. The printing speed is reduced when Thick, Extra Thk, or Trnsprnc is selected.

Page Side

Select Front when printing on the front of thick paper (Thick) or extra-thick paper (ExtraThk).

Select Back when printing on the back of thick paper (Thick) or extra-thick paper (ExtraThk)

Skip Blank Page

Enables you to skip blank pages when printing. This setting is available when you print in the ESC/Page, ESCP2, FX, or I239X mode.

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Auto Eject Page

Specifies whether or not to eject paper when the limit specified in the Time Out setting is reached. The default is `Off`, which means paper is not ejected when the time-out limit is reached.

Size Ignore

If you want to ignore a paper size error, select `On`. When you turn this item on, the printer keeps printing even if the image size exceeds the printable area for the specified paper size. This may cause smudges because of the toner that is not transferred onto the paper properly. When this item is turned off, the printer stops printing if a paper size error occurs.

Auto Cont

When you turn this setting on, the printer automatically continues printing after a certain period of time when one of the following errors occurs: Paper Set, Print Overrun, or Mem Overflow. When this option is off, you must press the ○ Start/Stop button to resume printing.

Page Protect

Allocates additional printer memory for printing data, as opposed to receiving it. You may need to turn this setting on if you are printing a very complex page. If a `Print Overrun` error message appears on the LCD panel during printing, turn this setting on and reprint your data. This reduces the amount of memory reserved for processing data so your computer may take longer to send the print job, but it will allow you to print complex jobs. Page Protect usually works best when `Auto` is selected. You will need to increase your printer's memory if memory errors continue to occur.

Note:
Changing the Page Protect setting reconfigures the printer's memory, which causes any downloaded fonts to be deleted.

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LCD Contrast

Adjusts the contrast of the LCD panel. Use the ▲ Up and ▼ Down buttons to set the contrast between 0 (lowest contrast) and 15 (highest contrast.)

Quick Print Job Menu

This menu allows you to print or delete print jobs that were stored in the printer's Hard Disk Drive using the Quick Print Job feature (Re-Print Job, Verify Job, Stored Job) of the printer driver's Reserve Job function. For instructions on using this menu, see "Using the Quick Print Job Menu" on page 265.

Confidential Job Menu

This menu allows you to print or delete print jobs stored in the printer's Hard Disk Drive using the Confidential Job feature of the printer driver's Reserve Job function. You need to enter the correct password to access this data. For instructions on using this menu, see "Using the Confidential Job Menu" on page 266.

Color Regist Menu

This menu allows you to make color registration settings.

Item	Settings (default in bold)
Cyan Regist	-36 ... 0 ... 36 in increments of 1
Magenta Regist	-36 ... 0 ... 36 in increments of 1
Yellow Regist	-36 ... 0 ... 36 in increments of 1

Cyan Regist

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Adjusts the registration position of the color cyan relative to black.

To adjust the registration, select Color Regist Sheet on the control panel's Information Menu to print a color registration sheet. Then use the Cyan Regist setting to select the number that corresponds to the cyan and black line segments most closely aligned. See "Checking Color Registration" on page 268 for more detailed instructions.

Magenta Regist

Adjusts the registration position of the color magenta relative to black.

To adjust the registration, select Color Regist Sheet on the control panel's Information Menu to print a color registration sheet. Then use the Magenta Regist setting to select the number that corresponds to the magenta and black line segments most closely aligned. See "Checking Color Registration" on page 268 for more detailed instructions.

Yellow Regist

Adjusts the registration position of the color yellow relative to black.

To adjust the registration, select Color Regist Sheet on the control panel's Information Menu to print a color registration sheet. Then use the Yellow Regist setting to select the number that corresponds to the yellow and black line segments most closely aligned. See "Checking Color Registration" on page 268 for more detailed instructions.

Reset Menu

This menu allows you to cancel printing and reset the printer settings.

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Clear Warning

Clears warning messages that show errors except for these that occur from consumable products or mandatory-replacement parts.

Clear All Warnings

Clears all warning messages that appear on the LCD panel.

Reset

Stops printing and clears the current job received from the active interface. You may want to reset the printer when there is a problem with the print job itself and the printer cannot print successfully.

Reset All

Stops printing, clears the printer memory, and restores the printer settings to their default values. The print jobs received from all interfaces are erased.

Note:
Performing Reset All clears print jobs received from all interfaces. Be careful not to interrupt someone else's job.

SelecType Init

Restores the control panel menu settings to their default values.

Parallel Menu

These settings control communication between the printer and the computer when using the parallel interface.

Item	Settings (default in bold)

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Parallel I/F	**On**, Off
Speed	**Fast**, Normal
Bi-D	Nibble, **ECP**, Off
Buffer Size	**Normal**, Maximum, Minimum

Parallel I/F

Allows you to activate or deactivate the parallel interface.

Speed

Specifies the pulse width of the ACKNLG signal when receiving data in the Compatibility mode or Nibble mode. When `Fast` is selected, the pulse width is about 1 ms. When `Normal` is selected, the pulse width is about 10 ms.

Bi-D

Allows you to specify the bidirectional communication mode. When you select `Off`, bidirectional communication is disabled.

Buffer Size

Determines the amount of memory to be used for receiving data and printing data. If `Maximum` is selected, more memory is allocated for receiving data. If `Minimum` is selected, more memory is allocated for printing data.

Note:

- ❏ *To activate* `Buffer Size` *settings, you must turn off the printer for more than five seconds then turn it back on. Or, you can perform a* `Reset All` *operation, as explained in "Reset Menu" on page 230.*

- ❏ *Resetting the printer erases all print jobs. Make sure the* Ready *light is not flashing when you reset the printer.*

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USB Menu

These settings control communication between the printer and the computer when using the USB interface.

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Item	Settings (default in bold)
USB I/F*1	**On**, Off
USB Speed*1	**HS**, FS
USB ExtI/F Confg*2	**No**, Yes
Get IP Address*3	Panel, Auto, PING
IP*3*4*5	0.0.0.0 to 255.255.255.255
SM*3	0.0.0.0 to 255.255.255.255
GW*3	0.0.0.0 to 255.255.255.255
NetWare*3	On, Off
AppleTalk*3	On, Off
MS Network*3	On, Off
Rendezvous*3	On, Off
USB Ext I/F Init*3	-
Buffer Size*1	**Normal**, Maximum, Minimum

*1 After this item is changed, the setting value takes effect after a warm boot or after the power is turned on again. While it is reflected in the Status Sheet and EJL read-back, the actual change takes effect after a warm boot or after the power is turned on again.

*2 Available only when a USB external device with D4 support is connected. The `USB Confis` setting is set to `No` automatically when exiting the panel settings.

*3 Available only when a USB external device with D4 support is connected and the `USB Confis` setting is set to `Yes`. The contents of the settings depend on the USB external device settings.

*4 Available only when the `Get IPAddress` setting is set to `Auto`. This setting cannot be changed.

*5 When the `Get IPAddress` setting is changed from `Panel` or `PING` to `Auto`, the panel setting values are saved. When `Auto` is changed to `Panel` or `PING`, the saved setting values are displayed. 192.168.192.168 if the settings are not made from the panel.

USB I/F

Allows you to activate or deactivate the USB interface.

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USB SPEED

Allows you to select the operation mode of USB interface. Selecting HS is recommended. Select FS if HS does not work on your computer system.

Buffer Size

Determines the amount of memory to be used for receiving data and printing data. If `Maximum` is selected, more memory is allocated for receiving data. If set to `Minimum` is selected, more memory is allocated for printing data.

Note:

- ❏ *To activate `Buffer Size` settings, you must turn off the printer for more than five seconds then turn it back on. Or, you can perform a `Reset All` operation, as explained in "Reset Menu" on page 230.*
- ❏ *Resetting the printer erases all print jobs. Make sure the* Ready *light is not flashing when you reset the printer.*

Network Menu

See the *Network Guide* for each setting.

AUX Menu

See the *Network Guide* for each setting.

P5C Menu

These settings are available in the P5C mode.

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Item	Settings (default in bold)
FontSource	**Resident**, Download*1, ROM A*2
Font Number	**0**... 65535 (depending on your settings)
Pitch*3	0.44 ... **10.00** ... 99.99 cpi in 0.01 cpi increment
Height*3	4.00 ... **12.00** ... 999.75 pt in 0.25 pt increment
SymSet	**IBM-US**, Roman-8, Roman-9, ECM94-1, 8859-2 ISO, 8859-9 ISO, 8859-10ISO, 8859-15ISO, PcBlt775, IBM-DN, PcMultiling, PcE.Europe, PcTk437, PcEur858, Pc1004, WiAnsi, WiE.Europe, WiTurkish, WiBALT, DeskTop, PsText, VeInternati, VeUS, MsPublishin, Math-8, PsMath, VeMath, PiFont, Legal, UK, ANSI ASCII, Swedis2, Italian, Spanish, German, Norweg1, French2, Windows, McText, Hebrew7, 8859-8 ISO, Hebrew8, Arabic8, OCR A, OCR B Pc866Cyr, Pc866Ukr, WinCyr, ISOCyr, Pc8Grk, Pc851Grk
Form	5 ... **60/64***4 ... 128 lines
CR Function	**CR**, CR+LF
LF Function	**LF**, CR+LF
Tray Assign	4, **4K**, 5S

*1 Available only when downloaded fonts are available.

*2 Available only when the optional font ROM module is installed.

*3 Depending on the font that has been selected.

*4 Depending on whether Letter (60) or A4 (64) paper has been selected.

FontSource

Sets the default font source.

Font Number

Sets the default font number for the default font source. The available number depends on the settings you made.

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Pitch

Specifies the default font pitch if the font is scalable and of fixed-pitch. You can select from `0.44` to `99.99` cpi (characters per inch), in 0.01-cpi increments. This item may not appear depending on the Font Source or Font Number settings.

Height

Specifies the default font height if the font is scalable and proportional. You can select from `4.00` to `999.75` points, in 0.25-point increments. This item may not appear depending on the Font Source or Font Number settings.

SymSet

Selects the default symbol set. If the font you selected in Font Source and Font Number is not available in the new SymSet setting, the Font Source and the Font Number settings are automatically replaced with the default value, `IBM-US`.

Form

Selects the number of lines for the selected paper size and orientation. This also causes a line spacing (VMI) change, and the new VMI value is stored in the printer. This means that later changes in the Page Size or Orientation settings cause changes in the Form value, based on the stored VMI.

CR Function, LF Function

These functions are included for users of particular operating systems, such as UNIX.

Tray Assign

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Changes the assignment for the paper source select command. When 4 is selected, the commands are set as compatible with the HP LaserJet 4. When 4K is selected, the commands are set as compatible with the HP LaserJet 4000, 5000, and 8000. When 5S is selected, the commands are set as compatible with the HP LaserJet 5S.

PS3 Menu

This menu allows you to make settings which affect the printer when it is in the PS3 mode.

Item	Settings (default in bold)
Error Sheet	**Off**, On
Coloration	**Color**, Mono
Image Protect	**Off**, On
Binary	On, **Off**

Error Sheet

When you select On, the printer prints out an error sheet.

Coloration

Allows you to select the color printing or black-and-white printing mode.

Image Protect

The printer employs lossy compression when Off is selected. The printer does not employ lossy compression when On is selected. Lossy compression refers to a data compression technique in which some amount of data is lost.

Binary

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Specifies the data format. Select On for the Binary data and select Off for the ASCII data.

Note:

- ❏ *Binary can only be used with network connection.*
- ❏ *You do not have to select On when using AppleTalk.*

To use the Binary data, make sure your application supports Binary data and that SEND CTRL-D Before Each Job and SEND CTRL-D After Each Job are set to No.

When this setting is set to On, you cannot use TBCP (Tagged binary communication protocol) and Job Management in the printer driver settings.

ESCP2 Menu

This menu allows you to make settings which affect the printer when it is in the ESC/P 2 emulation mode.

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Item	Settings (default in bold)
Font	**Courier**, Prestige, Roman, Sans Serif, Roman T, Orator S, Sans H, Script, OCR A, OCR B
Pitch	**10**, 12, 15 cpi, Prop.
Condensed	**Off**, On
T. Margin	0.40 ... **0.50** ... 1.50 inches in 0.05-inch increments
Text	1... **62/66***... 132 lines
CGTable	**PcUSA**, Italic, PcMultilin, PcPortugue, PcCanFrenc, PcNordic, PcTurkish2, PcIcelandic, PcE.Europe, BpBRASCII, BpAbicomp, Roman-8, PcEur858, ISO Latin1, 8859-15ISO, PcSl437, PcTurkish1, 8859-9 ISO, Mazowia, CodeMJK, PcGk437, PcGk851, PcGk869, 8859-7 ISO, PcCy855, PcCy866, PcUkr866, PcLit771, Bulgarian, Hebrew7, Hebrew8, PcHe862, PcAr864, PcAr864Ara, PcAr720, PcLit774, Estonia, ISO Latin2, PcLat866
Country	**USA**, France, Germany, UK, Denmark, Sweden, Italy, Spain1, Japan, Norway, Denmark2, Spain2, LatinAmeric, Korea, Legal
Auto CR	**On**, Off
Auto LF	**Off**, On
Bit Image	**Dark**, Light, BarCode
ZeroChar	**0**, (or the zero character with a slash)

* Depending on whether Letter (62) or A4 (66) paper has been selected.

Font

Selects the font.

Pitch

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Selects the pitch (the horizontal spacing) of the font in fixed pitch, measured in cpi (characters per inch). You can also choose proportional spacing.

Condensed

Turns condensed printing on or off.

T. Margin

Sets the distance from the top of the page to the baseline of the first printable line. The distance is measured in inches. The smaller the value, the closer the printable line is to the top.

Text

Sets the page length in lines. For this option, a line is assumed to be 1 pica (1/6 inch). If you change the Orientation, Page Size, or T. Margin settings, the page length setting automatically returns to the default for each paper size.

CG Table

Use the character generator (CG) table option to select the graphics character table or the italics table. The graphics table contains graphic characters for printing lines, corners, shaded areas, international characters, Greek characters, and mathematical symbols. If you select `Italic`, the upper half of the character table is defined as italic characters.

Country

Use this option to select one of the fifteen international symbol sets. See "International character sets" on page 460 for samples of the characters in each country's symbol set.

Auto CR

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Specifies whether the printer performs a carriage-return/line-feed (CR-LF) operation whenever the printing position goes beyond the right margin. If you select Off, the printer does not print any characters beyond the right margin and does not perform any line wrapping until it receives a carriage-return character. This function is handled automatically by most applications.

Auto LF

If you select Off, the printer does not send an automatic line-feed (LF) command with each carriage-return (CR). If On is selected, a line-feed command is sent with each carriage-return. Select On if your text lines overlap.

Bit Image

The printer is able to emulate the graphics densities set with the printer commands. If you select Dark, the bit image density is high, and if you select Light, the bit image density is low.

If you select BarCode, the printer converts bit images to bar codes by automatically filling in any vertical gaps between dots. This produces unbroken vertical lines that can be read by a bar code reader. This mode will reduce the size of the image being printed, and may also cause some distortion when printing bit image graphics.

ZeroChar

Specifies whether the printer prints a slashed or unslashed zero.

FX Menu

This menu allows you to make settings which affect the printer when it is in the FX emulation mode.

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Item	Settings (default in bold)
Font	**Courier**, Prestige, Roman, Sans Serif, Script, Orator S, OCR A, OCR B
Pitch	**10**, 12, 15 cpi, Prop.
Condensed	**Off**, On
T. Margin	0.40 ... **0.50** ... 1.50 inches in 0.05-inch increments
Text	1... **62/66***... 132 lines
CGTable	**PcUSA**, Italic, PcMultilin, PcPortugue, PcCanFrenc, PcNordic, PcTurkish2, PcIcelandic, PcE.Europe, BpBRASCII, BpAbicomp, Roman-8, PcEur858, ISO Latin1, 8859-15ISO
Country	**USA**, France, Germany, UK, Denmark, Sweden, Italy, Spain1, Japan, Norway, Denmark2, Spain2, LatinAmeric
Auto CR	**On**, Off
Auto LF	**Off**, On
Bit Image	**Dark**, Light, BarCode
ZeroChar	**0**, (or the zero character with a slash)

* Depending on whether Letter (62) or A4 (66) paper has been selected.

Font

Selects the font.

Pitch

Selects the pitch (the horizontal spacing) of the font in fixed pitch, measured in cpi (characters per inch). You can also choose proportional spacing.

Condensed

Turns condensed printing on or off.

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T. Margin

Sets the distance from the top of the page to the baseline of the first printable line. The distance is measured in inches. The smaller the value, the closer the printable line is to the top.

Text

Sets the page length in lines. For this option, a line is assumed to be 1 pica (1/6 inch). If you change the Orientation, Page Size, or T. Margin settings, the page length setting automatically returns to the default for each paper size.

CG Table

Use the character generator (CG) table option to select the graphics character table or the italics table. The graphics table contains graphic characters for printing lines, corners, shaded areas, international characters, Greek characters, and mathematical symbols. If you select `Italic`, the upper half of the character table is defined as italic characters.

Country

Use this option to select one of the fifteen international symbol sets. See "International character sets" on page 460 for samples of the characters in each country's symbol set.

Auto CR

Specifies whether the printer performs a carriage-return/line-feed (CR-LF) operation whenever the printing position goes beyond the right margin. If you select Off, the printer does not print any characters beyond the right margin and does not perform any line wrapping until it receives a carriage-return character. This function is handled automatically by most applications.

Auto LF

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If you select Off, the printer does not send an automatic line-feed (LF) command with each carriage-return (CR). If On is selected, a line-feed command is sent with each carriage-return. Select On if your text lines overlap.

Bit Image

The printer is able to emulate the graphics densities set with the printer commands. If you select Dark, the bit image density is high, and if you select Light, the bit image density is low.

If you select BarCode, the printer converts bit images to bar codes by automatically filling in any vertical gaps between dots. This produces unbroken vertical lines that can be read by a bar code reader. This mode will reduce the size of the image being printed, and may also cause some distortion when printing bit image graphics.

ZeroChar

Selects whether the printer prints a slashed or unslashed zero.

I239X Menu

The I239X mode emulates IBM® 2390/2391 Plus commands.

These settings are available only when the printer is in the I239X mode.

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Item	Settings (default in bold)
Font	**Courier**, Prestige, Gothic, Orator, Script, Presentor, Sans Serif
Pitch	**10**, 12, 15, 17, 20, 24 cpi, Prop.
Code Page	**437**, 850, 858, 860, 863, 865
T. Margin	0.30 ... **0.40** ...1.50 inches in 0.05-inch increments
Text	1 ... **63/67**[*1]... 132 lines
Auto CR	**Off**, On
Auto LF	**Off**, On
Alt. Graphics	**Off**, On
Bit Image	**Dark**, Light
ZeroChar	**0**, (or the zero character with a slash)
CharacterSet	**1**[*1], **2**[*2]

[*1] Depends on whether Letter (63) or A4 (67) paper has been selected.

[*2] Depends on whether Letter (1) or A4 (2) paper has been selected.

Font

Selects the font.

Pitch

Selects the pitch (the horizontal spacing) of the font in fixed pitch, measured in cpi (characters per inch). You can also choose proportional spacing.

Code Page

Selects the character tables. Character tables contain the characters and symbols used by different languages. The printer prints text based on the selected character table.

T. Margin

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Sets the distance from the top of the page to the baseline of the first printable line. The distance is measured in inches. The smaller the value, the closer the printable line is to the top.

Text

Sets the page length in lines. For this option, a line is assumed to be 1 pica (1/6 inch). If you change the Orientation, Page Size, or T. Margin settings, the page length setting automatically returns to the default for each paper size.

Auto CR

Specifies whether the printer performs a carriage-return/line-feed (CR-LF) operation whenever the printing position goes beyond the right margin. If this setting is off, the printer does not print any characters beyond the right margin and does not perform any line wrapping until it receives a carriage-return character. This function is handled automatically by most applications.

Auto LF

If you select `Off`, the printer does not send an automatic line-feed (LF) command with each carriage-return (CR). If `On` is selected, a line-feed command is sent with each carriage-return. Select `On` if your text lines overlap.

Alt.Graphics

Turns the Alternate Graphics option on or off.

Bit Image

The printer is able to emulate the graphics densities set with the printer commands. If you select `Dark`, the bit image density is high, and if you select `Light`, the bit image density is low.

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If you select BarCode, the printer converts bit images to bar codes by automatically filling in any vertical gaps between dots. This produces unbroken vertical lines that can be read by a bar code reader. This mode will reduce the size of the image being printed, and may also cause some distortion when printing bit image graphics.

ZeroChar

Selects whether the printer prints a slashed or unslashed zero.

CharacterSet

Selects character table 1 or 2.

Status and Error Messages

This section contains a list of error messages shown on the LCD panel, giving a brief description of each message and suggestions for correcting the problem. Note that not every message shown on the LCD panel indicates a problem. When the ▲▼ mark is displayed at the right of the warning message, multiple warnings occur. To confirm all warnings that occur, press the ▼ Down button to display the Status Menu, then press the Enter button. The LCD panel also displays the amounts of remaining toners and available paper sizes.

Calibrating Printer

The printer automatically calibrates itself. This is not an error message, and will clear itself after the calibration process has finished. While the printer displays this message, do not open the covers or turn off the printer.

Cancel All Print Job

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The printer is canceling all print jobs in the printer memory, including jobs the printer is currently receiving or printing. This message appears when the 🗑 Cancel Job button has been pressed down for more than 2 seconds.

Cancel Print Job

The printer is canceling the current print job. This message appears when the 🗑 Cancel Job button has been pressed and released within 2 seconds.

Cancel Print Job (by host)

The print job is canceled at the printer driver.

Can't Print

The print data is deleted because it is incorrect.

Make sure that the appropriate paper size is set and appropriate your printer driver is used.

Can't Print Duplex

The printer has encountered problems during duplex printing. Make sure you are using an appropriate type and size of paper for the Duplex Unit. The problem could also be a result of incorrect settings for the paper source you are using. Pressing the ○ Start/Stop button will print the rest of the print job on only one side of the paper. Press the 🗑 Cancel Job button to cancel the print job.

Check Transparency

You have loaded media other than transparencies when the Paper Type setting in the printer driver is Transparency, or transparencies are loaded when the Paper Setting in the printer driver is not set to Transparency. Paper is jammed at the MP tray.

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To clear the jam, see "Paper Jam C A B" on page 376.

Check Paper Size

The paper size setting is different from the size of paper loaded in the printer. Check to see if the correct size of paper is loaded in the specified paper source.

To clear this error, select `Clear Warning` from the control panel's `Reset Menu`. See "How to access the control panel menus" on page 214 for instructions.

Check Paper Type

The paper loaded in the printer does not match the paper type setting in the printer driver. Paper that matches only the paper size setting will be used for printing.

To clear this error, select `Clear Warning` from the control panel's `Reset Menu`. See "How to access the control panel menus" on page 214 for instructions.

Clean Sensor

Open cover A and remove the transfer unit temporarily. Wipe the transparent plastic window on the density sensor at the back of the transfer unit with a soft cloth, then reinstall the transfer unit. Close cover A to clear this error.

If the error still remains, replace the transfer unit with a new one.

Collate Disabled

Printing by specifying the number of copies is no longer possible due to a lack of memory (RAM) or free disk space on the optional Hard Disk Drive. If this error occurs, print only one copy at a time.

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To clear this error, select Clear Warning from the control panel's Reset Menu. For instruction about accessing the control panel menus, see "How to access the control panel menus" on page 214.

Duplex Mem Overflow

There is not enough memory for duplex printing. The printer prints only on the front and ejects the paper. To clear this error, follow the instructions below.

If Off is selected as the Auto Cont setting on the control panel's Setup Menu, press the ○ Start/Stop button to print on the back of the next sheet, or press the 🗑 Cancel Job button to cancel the print job.

If On is selected as the Auto Cont setting on the control panel's Setup Menu, printing continues automatically after a certain period of time.

Face-down Full

The output paper at the face-down tray is full. Remove the paper that has been output, then press the ○ Start/Stop button. Printing resumes.

Form Data Canceled

Unable to store form overlay data on the printer's optional Hard Disk Drive. Either the drive is full, or the maximum number of form overlay files has been reached. Delete any form overlay files you no longer need, then try storing the new overlay again.

To clear this error, select Clear Warning from the control panel's Reset Menu. For instruction about accessing the control panel menus, see "How to access the control panel menus" on page 214.

Form Feed

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The printer is ejecting paper due to a user request. This message appears when pressing the ○ Start/Stop button once to make the printer offline, then holding down the ○ Start/Stop button for more than 2 seconds in order not to receive form feed command.

Format Error ROM A

An unformatted ROM module has been inserted.

To clear this error, either press the ○ Start/Stop button or turn off the printer and remove the ROM module, then reinstall the ROM module. If that fails to clear the error, contact your dealer.

Formatting HDD

The Hard Disk Drive is being formatted.

Hard Disk full

The optional Hard Disk Drive is full and you cannot save any data. Delete the unnecessary data from the Hard Disk Drive. To clear this error, select `Clear Warning` from the control panel's `Reset Menu`. For instruction about accessing the control panel menus, see "How to access the control panel menus" on page 214.

HDD CHECK

The printer is checking the Hard Disk Drive.

Image Optimum

There is insufficient memory to print the page at the specified print quality. The printer automatically lowers the print quality so that it can continue printing. If the quality of the printout is not acceptable, try simplifying the page by limiting the number of graphics or reducing the number and size of fonts.

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To clear this error, select Clear Warning from the control panel's Reset Menu. See "How to access the control panel menus" on page 214 for instructions.

Turn the Image Optimum setting off on the control panel's Printing Menu if you do not want the printer to automatically lower the print quality to continue printing.

You may need to increase the amount of printer memory to be able to print at the desired print quality for your document. For more information on adding memory, see "Memory Module" on page 289.

Install Fuser

There is no fuser unit installed or the fuser unit is not installed properly. Turn off the printer, then install the fuser unit if it is not installed.

If a fuser unit is already installed, turn the printer off and reinstall the unit after it has cooled off (30 minutes). Then open cover B. Remove the fuser unit, then reinstall it properly. Close cover B. The error clears automatically if the fuser unit is properly installed.

If the error is not cleared, the fuser unit is out of order. Replace it with a new fuser unit.

Install LC1

The paper tray of the standard paper cassette is not installed, or not installed properly. Install the paper cassette correctly to clear this error.

Install LC2

The paper tray of the optional 550-sheet paper cassette unit is not installed, or not installed properly. Install the paper trays correctly to clear this error.

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Install LC3

The paper trays of the optional 1100-sheet paper cassette unit are not installed, or not installed properly. Install the paper trays correctly to clear this error.

Install Photoconductr

There is no photoconductor unit installed or the photoconductor unit is not installed properly. Turn off the printer and install the photoconductor unit if it is not installed.

If a photoconductor unit is already installed, confirm cover D is closed. Otherwise, turn off the printer, open cover A, and then open cover D. Remove the photoconductor unit, then reinstall it properly. Close covers D and A. The error clears automatically if the photoconductor unit is properly installed.

Install Transfer Unit

There is no transfer unit installed or the transfer unit is not installed properly. Turn off the printer, then install the transfer unit if it is not installed.

If a transfer unit is already installed, turn off the printer, open cover A, then remove the transfer unit. Reinstall the unit properly, then close cover A. The error clears automatically if the transfer unit is properly installed.

Install uuuu TnrCart

The indicated toner cartridges are not installed in the printer. (The letters C, M, Y, or K appear in place of uuuu and indicate the colors Cyan, Magenta, Yellow, and Black respectively.)

Install the indicated cartridges. See "Toner Cartridge" on page 312.

Invalid AUX I/F Card

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This message means that the printer cannot communicate with the installed optional interface card. Turn off the printer, remove the card, then reinstall it.

Invalid HDD

Either the optional Hard Disk Drive is damaged or it cannot be used with this printer. Turn off the printer, then remove the Hard Disk Drive.

Invalid N/W Module

There is no network program, or the network program cannot be used with your printer. Contact a qualified service representative.

Invalid P5C

An optional P5C Emulation Kit that cannot be used on this printer is installed. Turn off the printer, then remove the module.

Invalid PS3

The PostScript3 ROM module is broken. Turn off the printer and contact your dealer.

Invalid ROM A

The printer cannot read the installed optional ROM module. Turn off the printer, then remove the ROM module.

Paper Jam WWWW

The location where the paper jam occurred is displayed at WWWW. WWWW indicates the location of the error.

If a paper jam occurs at two or more locations simultaneously, the corresponding multiple locations are displayed.

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Location	Description
Paper Jam AB	Paper is jammed at the fuser unit. For instructions on how to remove jammed paper at the fuser unit, see "Paper Jam A B" on page 356.
Paper Jam A	Paper is jammed at cover A. For instructions on how to remove jammed paper at cover A, see "Paper Jam A" on page 362.
Paper Jam CA	Paper is jammed cover A and the paper cassette. For instructions on how to remove jammed paper at the Duplex Unit, see "Paper Jam C A" on page 367.
Paper Jam B	Paper is jammed at cover B. For instructions on how to remove jammed paper at the MP tray, see "Paper Jam B" on page 375.
Paper Jam CAB	Paper is jammed at cover A, B, the paper cassette. For instructions on clearing this type of paper jam, see "Paper Jam C A B" on page 376.

LC3 Error 001

Two 550-sheet paper cassette units are installed. Turn off the printer and remove one of them from the printer.

Manual Feed ssss

The manual feed mode is specified for the current print job. Make sure the paper size indicated by ssss is loaded, then press the ○ Start/Stop button.

Mem Overflow

The printer has insufficient memory to execute the current task. Press the ○ Start/Stop button on the control panel to resume printing, or press the 🗑 Cancel Job button to cancel the print job.

Menus Locked

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This message appears if you try to change the printer's settings through the control panel when the buttons are locked. You can unlock them by using the Network utility. Refer to the *Network Guide* for information.

Need Memory

The printer has insufficient memory to complete the current print job.

To clear this error message, select `Clear Warning` from the control panel's `Reset Menu`. See"How to access the control panel menus" on page 214 for instructions.

To prevent this problem from happening again, add more memory to your printer as described in "Memory modules" on page 422, or reduce the resolution of the image to be printed.

NonGenuine Toner

The installed toner cartridge is not a genuine Epson product. Installing a genuine toner cartridge is recommended. The printout and remaining amount of each toner cartridge displayed on the control panel may be different from those when using genuine EPSON toner cartridges. Epson shall not be liable for any damages or problems arising from the use of consumable products not manufactured or approved by Epson.

Install a genuine Epson product, or `Clear All Warnings` of the `Reset Menu` on the control panel to clear the warning message. See "Toner Cartridge" on page 312 for instructions on replacing the imaging cartridge.

NonGenuine Toner uuuu

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The installed toner cartridge is not an genuine Epson toner cartridge. The printout and remaining amount of each toner cartridge displayed on the control panel may be different from those when using genuine EPSON toner cartridges. Epson shall not be liable for any damages or problems arising from the use of consumable products not manufactured or approved by Epson. Installing a genuine toner cartridge is recommended. Press the ○ Start/Stop button on the control panel to resume printing.

Offline

The printer is not ready to print. Press the ○ Start/Stop button. In this mode, the remaining amount of the toner cartridge for each color is displayed in seven levels.

Optional RAM Error

The optional memory module may be corrupted or incorrect. Replace it with a new one.

Paper Out tttt sssss

There is no paper in the specified paper source (tttt). Load paper of the size (sssss) into the paper source.

Paper Set tttt sssss

The paper loaded in the specified paper source (tttt) does not match the required paper size (sssss). Replace the loaded paper with the correct size paper and press the ○ Start/Stop button to resume printing, or press the 🗑 Cancel Job button to cancel the print job.

If you press the ○ Start/Stop button without replacing the paper, the printer will print on the loaded paper even though it does not match the required size.

Printer Open

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Cover A, cover B, cover D, or some combination of these covers are open. To clear this error, close all covers.

Print Overrun

The required time to process the print data exceeded the print engine speed because the current page is too complex. Press the ○ Start/Stop button to resume printing, or press the 🗑 Cancel Job button to cancel the print job. If this message appears again, select On as the Page Protect setting in the control panel's Setup Menu or select Avoid Page Error on the printer driver.

If you continue to receive this message when printing a particular page, try simplifying the page by limiting the number of graphics or reducing the number and size of fonts.

To avoid this error, it is recommended that you set the Page Protect setting to On and add more memory to the printer. See "Setup Menu" on page 224 and "Memory Module" on page 289 for details.

PS3 Hard Disk full

The memory allocated for writing PostScript 3 commands on the optional Hard Disk Drive is full.

To clear this error, select Clear Warning from the control panel's Reset Menu, or remove the downloaded PS fonts to make room on the Hard Disk Drive. For instruction about accessing the control panel menus, see "How to access the control panel menus" on page 214.

RAM check

The printer is checking the RAM.

Ready

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The printer is ready to receive data and print.
In this mode, the remaining amount of the toner cartridge for each color is displayed in seven levels.

Replace Photoconductor

The photoconductor has reached the end of its service life. Turn off the printer, then replace the photoconductor unit with a new one. See "Photoconductor Unit" on page 318 for instructions.

The error clears automatically after you replace the unit, then close all printer covers. The photoconductor service life counter is reset automatically.

When the error light is blinking, you can continue printing by pressing the ○ Start/Stop button. However, the print quality is not guaranteed from then on.

Replace Toner uuuu

The indicated toner cartridges are out of toner and need to be replaced. (The letters C, M, Y, or K appear in place of uuuu and indicate the colors Cyan, Magenta, Yellow, and Black respectively.)

See "Toner Cartridge" on page 312 for instructions.

Replace Transfer Unit

The transfer unit has reached the end of its service life. Turn off the printer, then replace the transfer unit with a new one. See "Transfer Unit" on page 330 for instructions.

The error clears automatically after you replace the unit and close all printer covers. The transfer unit service life counter is reset automatically.

Reserve JobCanceled

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The printer cannot store the data of your print job using the Reserve Job function. The maximum number of print jobs stored on the printer's Hard Disk Drive has been reached, or the drive has no more memory available to store a new job. To store a new print job, delete a previously stored job. Also, if you have any Confidential Jobs stored, printing those jobs will make more memory available.

To clear this error, select `Clear Warning` from the control panel's `Reset Menu`. For instruction about accessing the control panel menus, see "How to access the control panel menus" on page 214.

Reset

The printer's current interface has been reset and the buffer has been cleared. However, other interfaces are still active and retain their settings and data.

Reset All

All printer settings have been reset to the default configuration, or to the last settings that were saved.

Reset to Save

A control panel menu setting was changed while the printer was printing. Press the ○ Start/Stop button to clear this message. The setting will become effective after printing has finished. Alternatively you can clear this message by performing `Reset` or `Reset All` on the control panel. However, the print data will be deleted.

ROM CHECK

The printer is checking the ROM.

Self Test

The printer is currently performing a self test and initialization.

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Service Req Cffff/Service Req Exxx

A controller error or a print engine error has been detected. Turn off the printer. Wait at least 5 seconds, then turn it back on. If the error message still appears, write down the error number listed on the LCD panel (Cffff/Exxx), turn off the printer, unplug the power cord, then contact a qualified service representative.

Sleep

The printer is currently in the power-save mode. This mode is canceled when the printer receives print data or the Reset button is pressed. In this mode, the remaining amount of the toner cartridge for each color is displayed in seven levels.

TonerCart Error uuuu

A read/write error has occurred for the indicated toner cartridges (The letters C, M, Y, or K appear in place of uuuu and indicate the colors Cyan, Magenta, Yellow, and Black respectively.). Remove the toner cartridges and reinsert them. If that fails to clear the error, replace the toner cartridges.

To install the indicated cartridges. See "Toner Cartridge" on page 312.

Unable Clear Error

The printer cannot clear an error message because the error status still remains. Try solving the problem again.

uuuu Toner Low

This message indicates that the toner cartridge for the indicated color is near the end of its service life. Prepare a new toner cartridge.

Warming Up

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The printer is warming up the machine to be ready to print.

Worn Fuser

This message indicates that the fuser unit is near the end of its service life. Printing after this message appears is not guaranteed. Turn the printer off, then reinstall the unit after it has cooled off (30 minutes). Then replace the fuser unit with a new one. See "Fuser Unit" on page 325 for instructions.

The error clears automatically after you replace the unit and close all printer covers.

Worn Photoconductor

This message indicates that the photoconductor unit is near the end of its service life. Printing after this message appears is not guaranteed. Turn the printer off, then replace the photoconductor unit with a new one. See "Photoconductor Unit" on page 318 for instructions. The error clears automatically after you replace the unit and close the printer covers.

Worn Transfer Unit

This message warns you that the transfer unit is near the end of its service life. You can continue to print until the `Replace TransferUnit` error message appears, but early replacement is recommended to maintain high print quality.

To clear this warning message and continue printing, select `Clear All Warning` from the control panel's `Reset Menu`. For instruction about accessing the control panel menus, see "How to access the control panel menus" on page 214.

Worn uuuu Dev Unit

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The developer unit for the indicated color is near the end of its service life. The letters C, M, Y, or K appear in place of uuuu and indicate the colors Cyan, Magenta, Yellow, and Black respectively. Contact your dealer.

Write Error ROM A/Write Error ROM P

This message indicates an internal error in the printer. Reset the printer. If this error persists, consult your dealer.

Writing ROM A/Writing ROM P

This message indicates that a ROM module in the slot is being written. Please wait until this message disappears.

Wrong Photoconductor

An inappropriate photoconductor unit is installed. Install only the photoconductor unit listed in "Consumable products" on page 31.

See "Photoconductor Unit" on page 318 for instructions on replacing the photoconductor unit.

Wrong Toner uuuu

An inappropriate toner cartridge is installed. Install only the toner cartridge listed in "Consumable products" on page 31.

See "Toner Cartridge" on page 312 for instructions on replacing the Toner cartridge. (The letters C, M, Y, or K appear in place of uuuu and indicate the colors Cyan, Magenta, Yellow, and Black respectively.)

Printing and Deleting Reserve Job Data

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Print jobs stored on the printer's optional Hard Disk Drive using the Re-Print Job, Verify Job, and Stored Job options of the Reserve Job function can be printed and deleted using the control panel's Quick Print Job Menu. Jobs saved using the Confidential Job option can be printed from the Confidential Job Menu. Follow the instructions in this section.

Using the Quick Print Job Menu

Follow the steps below to print or delete Re-Print Job, Verify Job, and Stored Job data.

1. Make sure the LCD panel displays `Ready` or `Sleep`, then press the Enter button to access the control panel menus.

2. Press the ▼ Down button repeatedly until `Quick Print Job Menu` appears on the LCD panel, then press the Enter button.

3. Use the ▼ Down or ▲ Up button to scroll to the appropriate user name, then press the Enter button.

4. Use the ▼ Down or ▲ Up button to scroll to the appropriate job name, then press the Enter button.

5. To specify the number of copies you want to print, press the Enter button, then use the ▼ Down and ▲ Up buttons to select the number of copies.

   To delete the print job without printing any copies, press the ▼ Down button to display `Delete` on the LCD panel.

6. Press the Enter button to start printing or to delete the data.

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Using the Confidential Job Menu

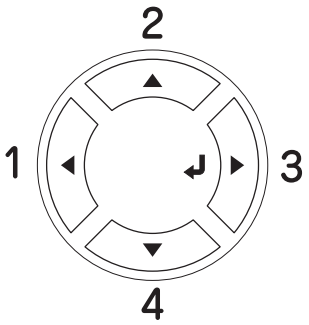
Follow the steps below to print or delete Confidential Job data.

1. Make sure the LCD panel displays `Ready` or `Sleep`, then press the Enter button to access the control panel menus.

2. Press the ▼ Down button repeatedly until `ConfidentialJobMenu` appears on the LCD panel, then press the Enter button.

3. Use the ▼ Down or ▲ Up button to scroll to the appropriate user name, then press the Enter button.

4. Enter your four-digit password by using the corresponding buttons, as shown below.



Note:

- ❏ *Passwords are always four digits.*
- ❏ *Passwords consist of numbers from 1 through 4.*
- ❏ *If no print jobs have been saved with the password you entered,* `Password Error` *appears briefly on the LCD panel then the printer exits the control panel menus. Confirm the password and try again.*

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5. Use the ▼ Down or ▲ Up button to scroll to the appropriate job name, then press the Enter button.

6. To specify the number of copies you want to print, press the Enter button, then use the ▼ Down and ▲ Up buttons to select the number of copies.

   To delete the print job, press the ▼ Down button to display `Delete` on the LCD panel.

7. Press the Enter button to start printing or to delete the data.

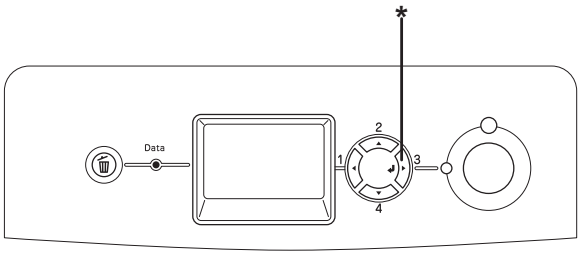
Printing a Status Sheet

To confirm the current status of the printer, and that the options are installed correctly, print a status sheet using the printer's control panel.

Follow the steps below to print a status sheet.

1. Turn on the printer. The LCD panel shows `Ready` or `Sleep`.

2. Press the Enter button three times. The printer prints a status sheet.



* Enter button

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3. Confirm that the information about the installed options is correct. If the options are installed correctly, they appear under Hardware Configurations. If the options are not listed, try reinstalling them.

Note:

❏ *If the status sheet does not list your installed options correctly, make sure that they are securely connected to the printer.*

❏ *If you are unable to get the printer to print a correct status sheet, contact your dealer.*

Checking Color Registration

If you transported your printer for a long distance, you need to check the color registration for possible misalignment.

Printing a color registration sheet

Follow the steps below to print the color registration sheet.

1. Turn on the printer.

2. Load paper into the MP tray.

3. Make sure the LCD panel displays `Ready` or `Sleep`, then press the Enter button on the control panel twice.

4. Press the ▼ Down button several times to display `ColorRegist Sheet`.

5. Press the Enter button. The printer prints a color registration sheet.

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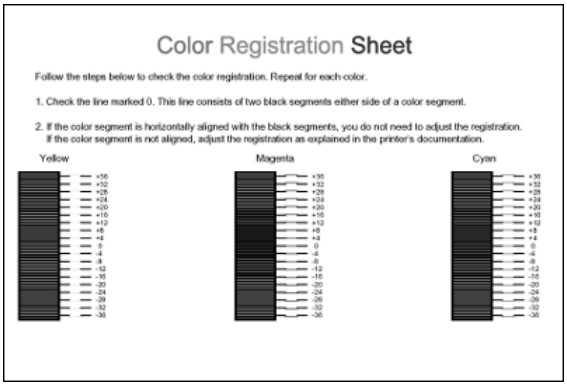
6. Check the alignment of the lines at the zero position for each color. If the color segment of the line is in alignment with the black segments on either side to make one straight line, you do not need to adjust the registration for that color. If the line segments are not aligned, adjust the registration as explained below.


Color Registration Sheet
Follow the steps below to check the color registration. Repeat for each color.
1. Check the line marked 0. This line consists of two black segments either side of a color segment.
2. If the color segment is horizontally aligned with the black segments, you do not need to adjust the registration.
If the color segment is not aligned, adjust the registration as explained in the printer's documentation.
Yellow
Magenta
Cyan

Adjusting color registration alignment

Follow the steps below to adjust color registration.

1. Make sure the LCD panel displays `Ready` or `Sleep`, then press the Enter button to access the control panel menus.

2. Press the ▼ Down button several times until the LCD panel displays `Color Regist Menu`, then press the Enter button.

3. Press the ▲ Up button several times until the LCD displays the `XXXX Regist` item for the color (Cyan, Magenta, and Yellow) you need to adjust, then press the Enter button. For example, to adjust the cyan registration, scroll up to `Cyan Regist`, then press the Enter button.

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4. On the color registration sheet, find the line segments that are most closely aligned, then use the ▲ Up or ▼ Down button to display the number that corresponds to that pattern. Press the Enter button to complete the adjustment.

5. If necessary, print the color registration sheet for confirmation.

Canceling Printing

You can cancel printing from your computer by using the printer driver.

To cancel a print job before it is sent from your computer, for Windows, see "Canceling Printing" on page 122 or for Macintosh, see "Canceling Printing" on page 186.

Using the Cancel Job button

The Cancel Job button on your printer is the quickest and easiest way to cancel printing. Pressing this button cancels the currently printing job. Pressing the Cancel Job button for more than two seconds deletes all jobs from the printer memory, including jobs the printer is currently receiving or printing.

Using the Reset menu

Selecting `Reset` from the control panel's `Reset Menu` stops printing, clears the print job being received from the active interface, and clears errors that may have occurred at the interface.

Follow the steps below to use the `Reset Menu`.

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1. Press the Enter button to access the control panel menus.
2. Press the ▼ Down button several times until `Reset Menu` appears on the LCD panel, then press the Enter button.
3. Press the ▼ Down button several times until `Reset` to display.
4. Press the Enter button. Printing is canceled. The printer is ready to receive a new print job.

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Chapter 8

Installing Options

Optional Paper Cassette Unit

For details about the paper types and sizes that you can use with the optional paper cassette unit, see "Standard lower paper cassette and optional paper cassette unit" on page 47. For specifications, see "Optional paper cassette unit" on page 420.

You can install the following optional paper cassettes on the printer:

- ❏ A 550-sheet Paper Cassette Unit
- ❏ A 1100-sheet Paper Cassette Unit
- ❏ Both a 550-sheet Paper Cassette Unit and a 1100-sheet Paper Cassette Unit

Handling precautions

Always pay attention to the following handling precautions before installing the option:

- ❏ The optional 1100-sheet paper cassette unit weighs approximately 21 kg (46.3 lb); always lift it with two people.

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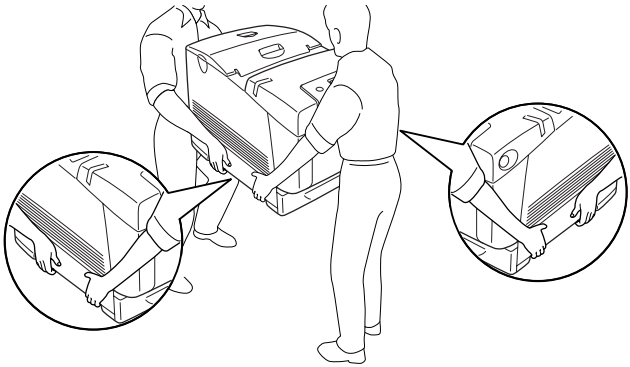
❏ The printer weighs about 34.6 kg (76.3 lb). One person should never attempt to lift or carry it alone. Two people should carry the printer, lifting it from the positions shown below.



Warning:
To lift the printer safely, you must hold it in the positions shown above. If carried incorrectly, the printer may be dropped and damaged or cause an injury.

Installing the optional paper cassette unit

Follow the steps below to install the optional 550-sheet or 1100-sheet paper cassette Unit.

Note:
The procedure for installing the 550-sheet paper cassette unit is the same as that for the 1100-sheet paper casette unit unless otherwise specified.

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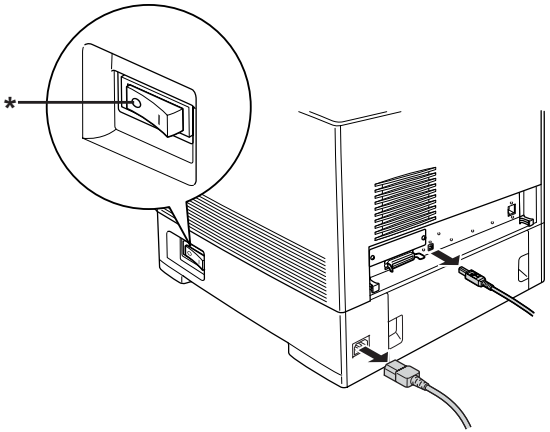
1. Turn the printer off and unplug the power cord and all the interface cables.



* OFF

Caution:
Make sure to unplug the power cord from the printer to prevent getting an electrical shock.

2. Carefully remove the optional paper cassette unit from its carton and place it on the floor.

Note:

- ❏ *Make sure you have the four screws packed with the optional paper cassette unit.*
- ❏ *Remove the protective materials from the unit.*
- ❏ *Keep all protective materials in case you want to ship the optional paper cassette unit in the future.*

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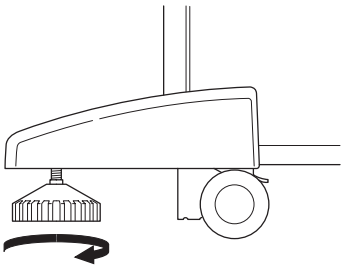
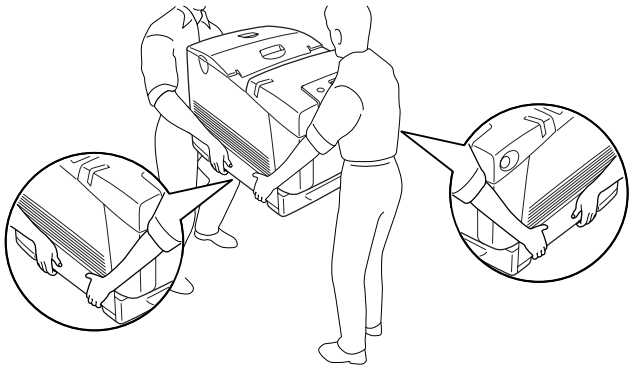
3. Lock the four feet at the bottom of the 1100-sheet paper cassette unit by turning the dials below the feet.



Note:
The 550-sheet paper cassette unit does not have feet.

Warning:
Be sure to lock all four feet before installing the unit on the printer. Otherwise, the unit may move and cause an accident.

4. Carefully, grasp the printer at the position indicated below and lift it carefully with two people.



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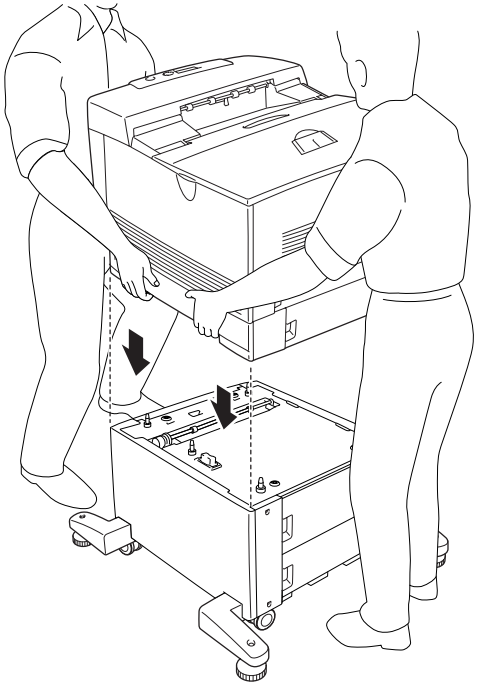
5. Align the corners of the printer and the unit, then lower the printer gently onto the unit so that the five pins on top of the unit fit into the holes on the bottom of the printer.



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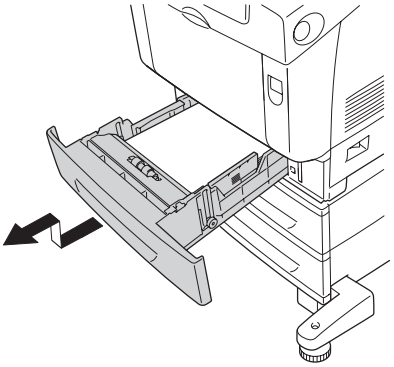
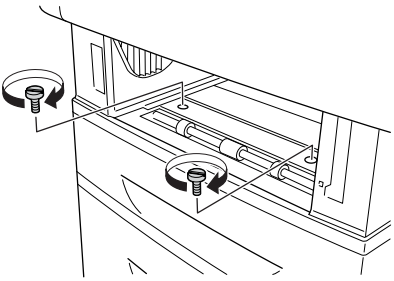
6. Remove the standard lower cassette from the printer.



7. Fasten the front of the optional paper cassette unit to the printer with two of the provided screws.



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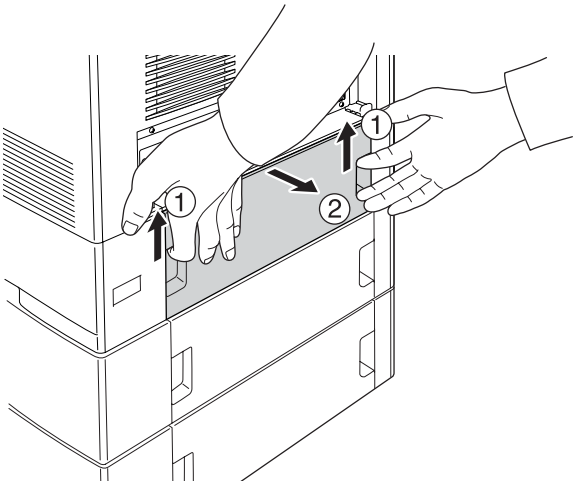
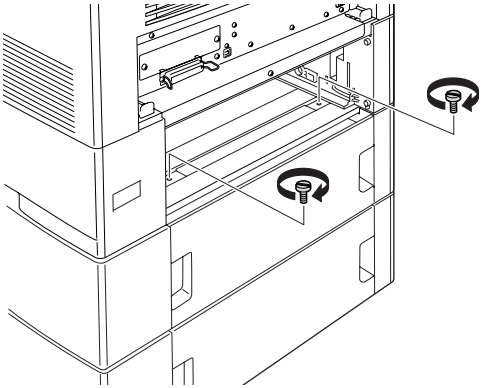
8. Remove the cover on the back of the standard lower cassette.



9. Screw the back of the unit to the printer with the remaining two screws.



10. Reattach the cover.

11. Reinsert the standard lower cassette into the printer.

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12. Reconnect all the interface cables and the power cord.

13. Plug the printer's power cord into an electrical outlet.

14. Turn on the printer.

To confirm that the option is installed correctly, print a Status Sheet. See "Printing a Status Sheet" on page 377.

Note for Windows users:
If EPSON Status Monitor is not installed, you have to make settings manually in the printer driver. See "Making Optional Settings" on page 95.

Note for Macintosh users:
When you have attached or removed printer options, you need to delete the printer using Print Setup Utility *(for Mac OS X 10.3),* Print Center *(for Mac OS X 10.2 or below), or* Chooser *(for Mac OS 9), and then re-register the printer.*

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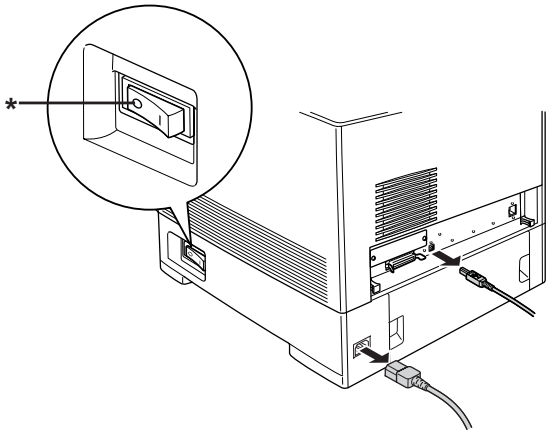
Installing the two optional paper cassette units

1. Turn the printer off and unplug the power cord and all the interface cables.



* OFF

Caution:
Make sure to unplug the power cord from the printer to prevent getting an electrical shock.

2. Carefully remove the optional paper cassette units from their cartons and place them on the floor.

Note:

- ❏ *Make sure you have the four screws packed with each of the optional paper cassette unit.*
- ❏ *Remove the protective materials from the units.*
- ❏ *Keep all protective materials in case you want to ship the optional paper cassette units in the future.*

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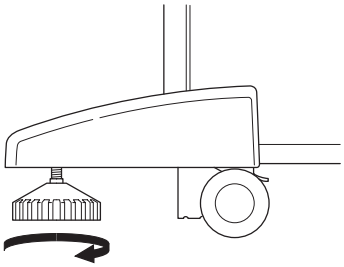
3. Lock the four feet at the bottom of the 1100-sheet paper cassette unit by turning the dials below the feet.



Warning:
Be sure to lock all four feet before installing the unit on the printer. Otherwise, the unit may move and cause an accident.

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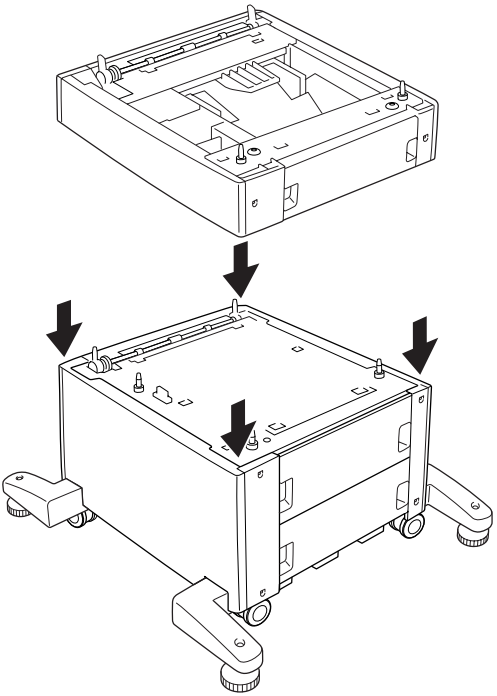
4. Lift the 550-sheet paper cassette unit and align the corners of it and the 1100-sheet paper cassette unit. Then lower the 550-sheet paper cassette unit onto the 1100-sheet paper cassette unit so that five pins on top of the 1100-sheet paper cassette unit fit into the holes on the bottom of the 550-sheet paper cassette unit.



5. Carefully, grasp the printer at the position indicated below and lift it carefully with two people.

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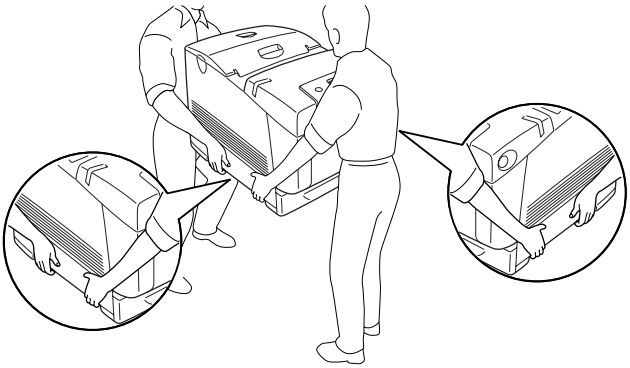
Warning:
Two people should lift the printer by the correct positions as shown below.



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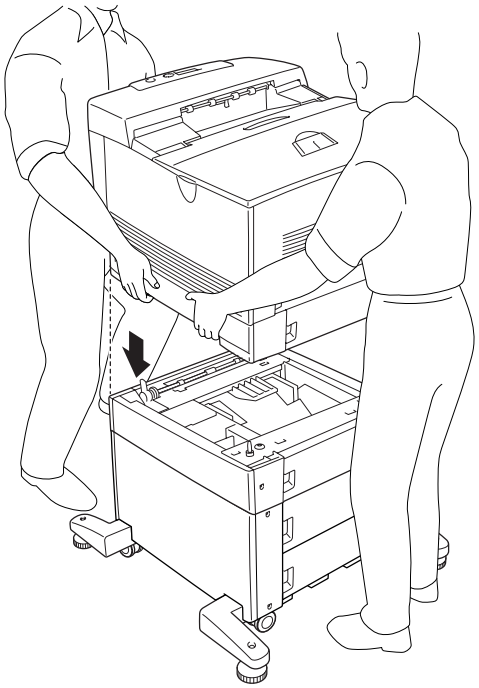
6. Align the corners of the printer and the 550-sheet paper cassette unit, then lower the printer gently onto the unit so that the five pins on top of the unit fit into the holes on the bottom of the printer.



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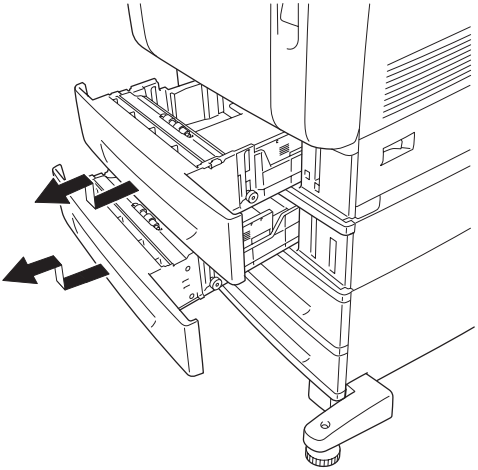
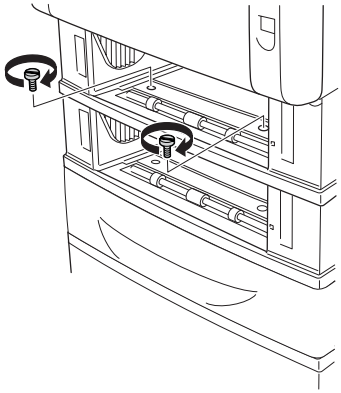
7. Remove the standard lower cassette from the printer and the 550-sheet paper cassette from the unit.



8. Fasten the front of the 550-sheet paper cassette unit to the printer with the two provided screws.



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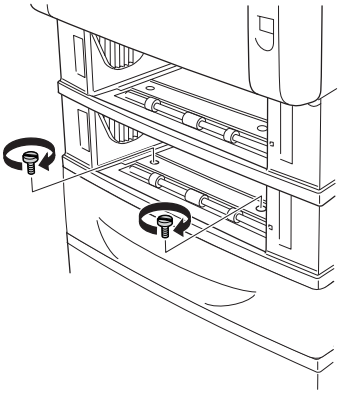
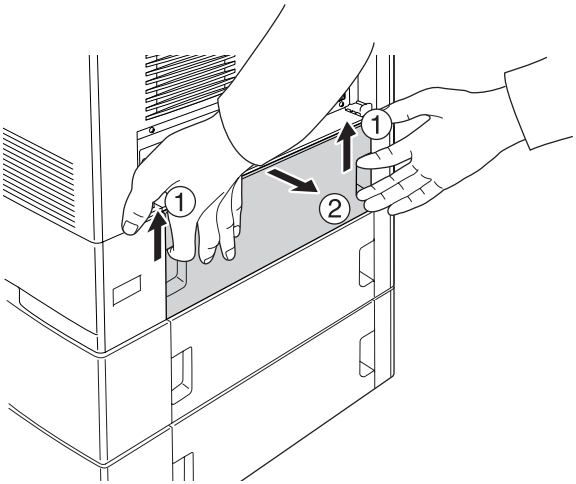
9. Fasten the front of the 1100-sheet paper cassette unit to the printer with the two provided screws.



10. Remove the cover on the back of the standard lower cassette.



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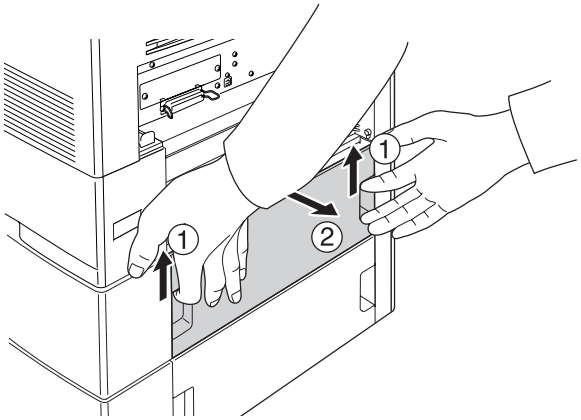
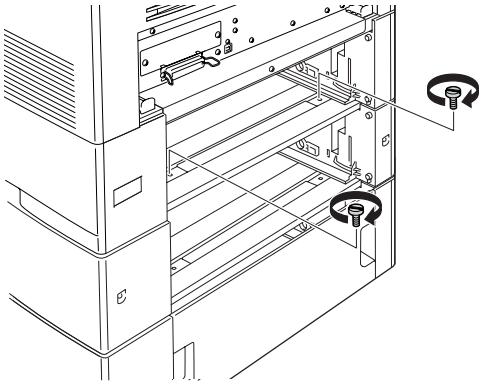
11. Remove the cover on the back of the 550-sheet paper cassette.



12. Screw the back of the 550-sheet paper cassette unit to the printer with the remaining two screws.



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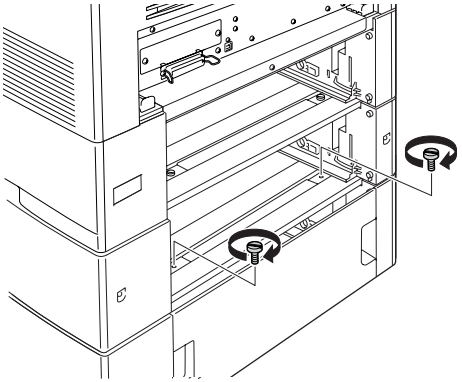
13. Screw the back of the 1100-sheet paper cassette unit to the 550-sheet paper cassette unit with the remaining two screws.



14. Reattach the two covers.

15. Reinsert the standard lower cassette into the printer and 550-sheet paper cassette into the unit.

16. Reconnect all the interface cables and the power cord.

17. Plug the printer's power cord into an electrical outlet.

18. Turn on the printer.

To confirm that the option is installed correctly, print a Status Sheet. See "Printing a Status Sheet" on page 377.

Note for Windows users:
If EPSON Status Monitor is not installed, you have to make settings manually in the printer driver. See "Making Optional Settings" on page 95.

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Note for Macintosh users:
When you have attached or removed printer options, you need to delete the printer using Print Setup Utility *(for Mac OS X 10.3),* Print Center *(for Mac OS X 10.2 or below), or* Chooser *(for Mac OS 9), and then re-register the printer.*

Removing the optional paper cassette unit

Perform the installation procedure in reverse.

Memory Module

By installing a Dual In-line Memory Module (DIMM), you can increase printer memory up to 640 MB. You may want to add additional memory if you are having difficulty printing complex graphics.

Installing a memory module

Follow the steps below to install an optional memory module.

Caution:
Before you install a memory module, be sure to discharge any static electricity by touching a grounded piece of metal. Otherwise, you may damage static-sensitive components.

Warning:
Be careful when working inside the printer as some components are sharp and may cause injury.

Note:
If the optional Hard Disk Drive is installed, remove it before installing a memory module.

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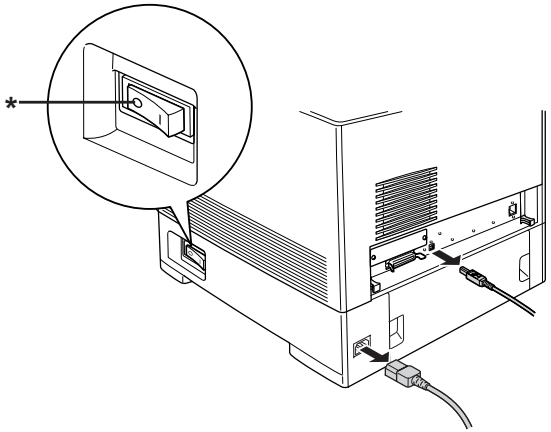
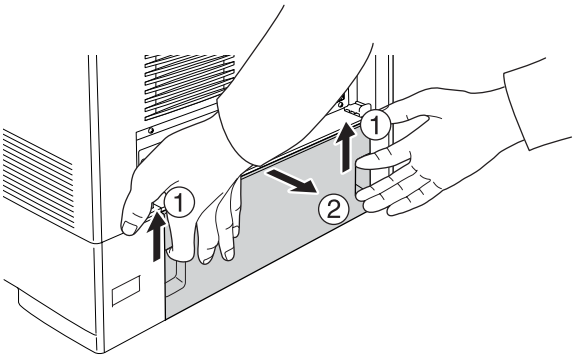
1. Turn the printer off and unplug the power cord and all the interface cables.



* OFF

Caution:
Make sure to unplug the power cord from the printer to prevent getting an electrical shock.

2. Remove the cover on the back of the standard lower cassette.



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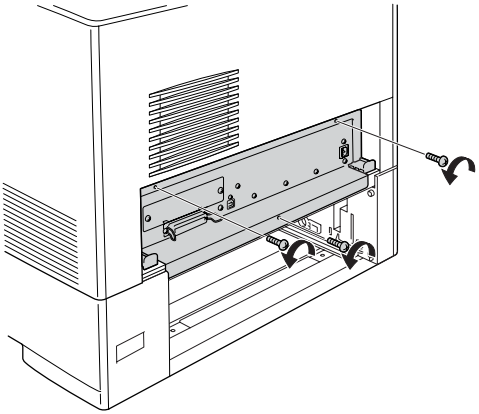
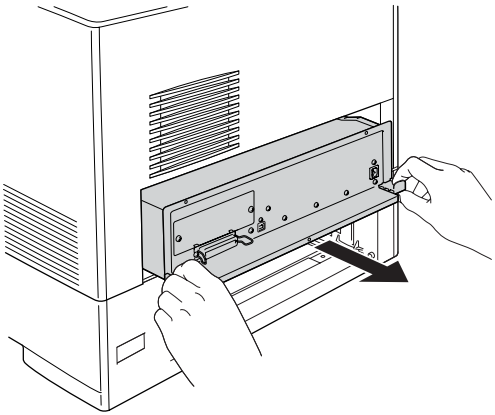
3. Loosen the three screws on the back of the printer.



4. Pull out the circuit board tray.



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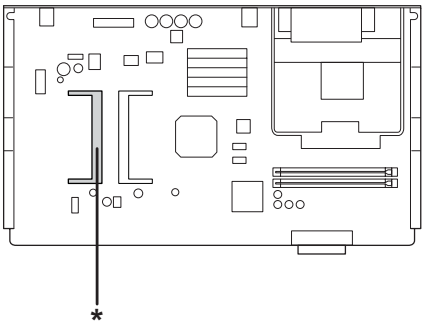
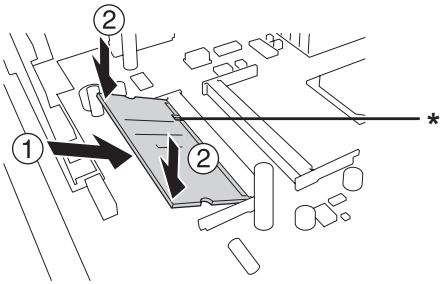
5. Identify the memory slot. Its position is shown below.



* Memory slot

6. Hold the memory module and insert it into the slot in the orientation shown below until it stops. Then press both sides of the memory module down. Confirm that the notch on the memory module matches that of the memory slot.



* notch

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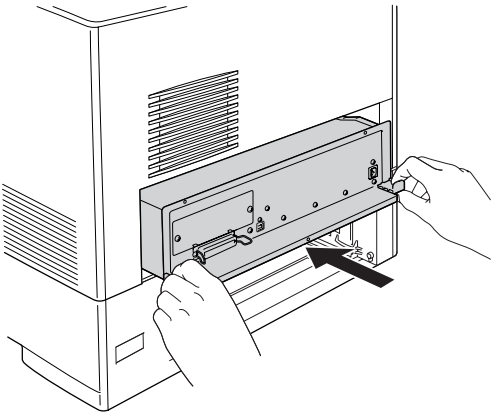
Caution:

- ❏ *Do not apply too much force.*
- ❏ *Be sure to insert the memory facing the correct way.*
- ❏ *Do not remove any modules from the circuit board. Otherwise, the printer will not work.*

7. Slide the circuit board tray into the printer.



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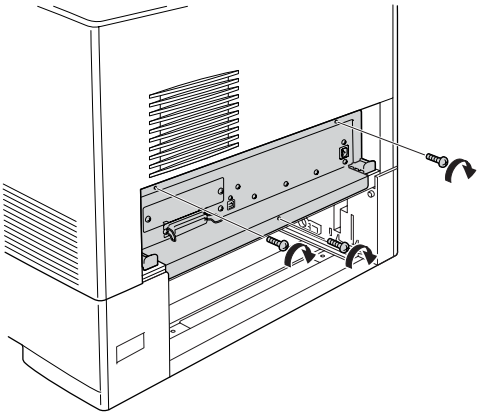
8. Fasten the circuit board tray with the three screws.



9. Reattach the cover.

10. Reconnect all the interface cables and the power cord.

11. Plug the printer's power cord into an electrical outlet.

12. Turn on the printer.

To confirm that the option is installed correctly, print a Status Sheet. See "Printing a Status Sheet" on page 377.

Note for Windows users:
If EPSON Status Monitor is not installed, you have to make settings manually in the printer driver. See "Making Optional Settings" on page 95.

Note for Macintosh users:
When you have attached or removed printer options, you need to delete the printer using Print Setup Utility *(for Mac OS X 10.3),* Print Center *(for Mac OS X 10.2 or below), or* Chooser *(for Mac OS 9), and then re-register the printer.*

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Removing a memory module

Caution:
Before you remove a memory module, be sure to discharge any static electricity by touching a grounded piece of metal. Otherwise, you may damage static-sensitive components.

Warning:
Be careful when working inside the printer as some components are sharp and may cause injury.

Note:
If the optional Hard Disk Drive is installed, remove it before uninstalling a memory module.

Perform the installation procedure in reverse.

Hard Disk Drive

The optional Hard Disk Drive allows you to expand the printer's input buffer when the Ethernet interface is used, and gives you additional memory for graphics, form data, and faster multi-page, multi-output sorting.

Installing the Hard Disk Drive

Follow the steps below to install the Hard Disk Drive.

Caution:
Before you install the Hard Disk Drive, be sure to discharge any static electricity by touching a grounded piece of metal. Otherwise, you may damage static-sensitive components.

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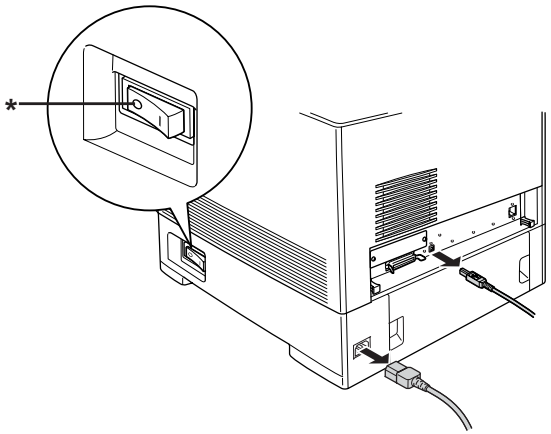
Warning:
Be careful when working inside the printer as some components are sharp and may cause injury.

1. Turn the printer off and unplug the power cord and all the interface cables.



* OFF

Caution:
Make sure to unplug the power cord from the printer to prevent getting an electrical shock.

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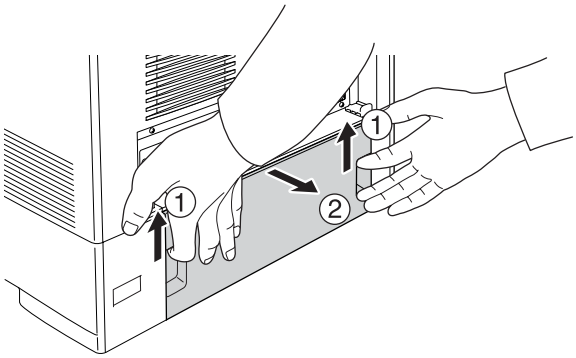
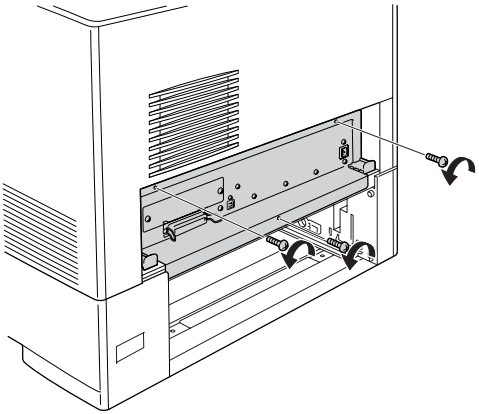
2. Remove the cover on the back of the standard lower cassette.



3. Loosen the three screws on the back of the printer.



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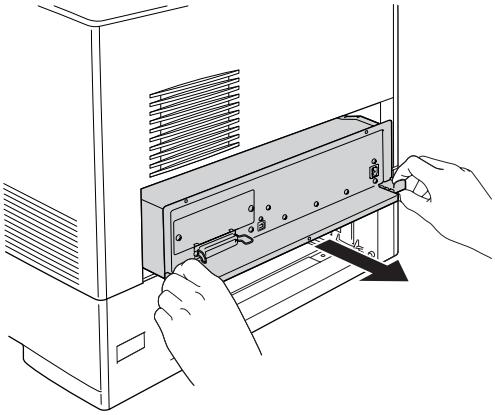
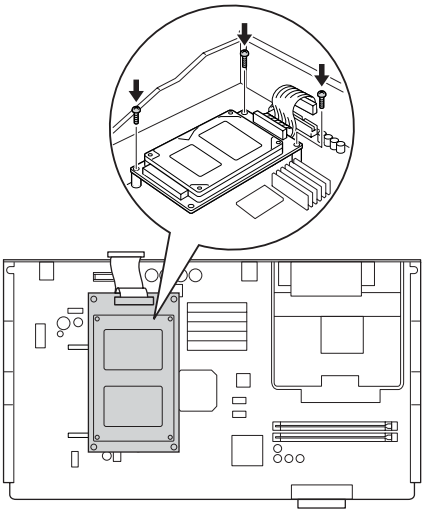
4. Pull out the circuit board tray.



5. Align the three screw holes on the Hard Disk Drive with the screw holes on the circuit board. Secure it by tightening the three screws provided.



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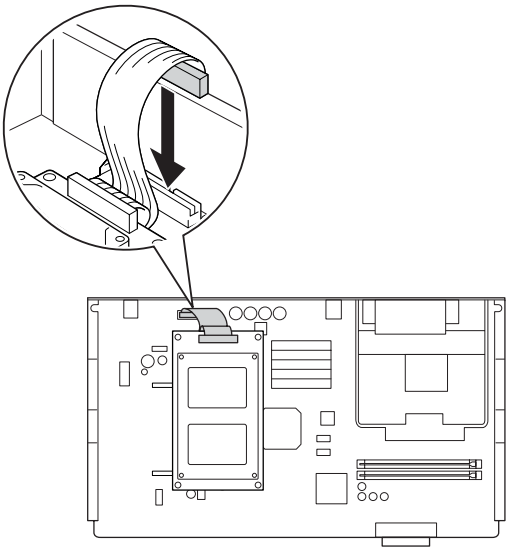
Note:
Be careful not to damage the cable when tightening the screws.

Caution:
Do not remove any modules from the circuit board. Otherwise, the printer will not work.

6. Connect the Hard Disk Drive cable to the circuit board.



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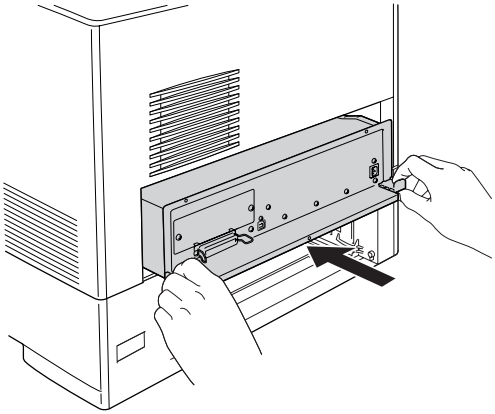
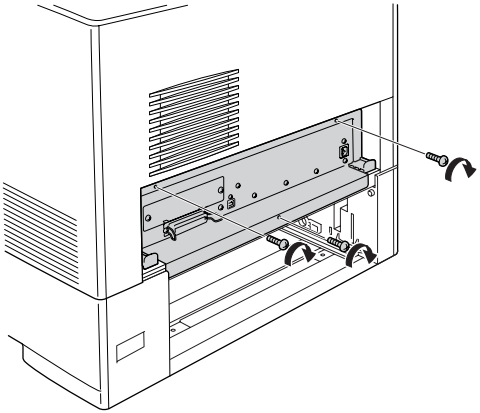
7. Slide the circuit board tray into the printer.



8. Fasten the circuit board tray with the three screws.



9. Reattach the cover.

10. Reconnect all the interface cables and the power cord.

11. Plug the printer's power cord into an electrical outlet.

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12. Turn on the printer.

To confirm that the option is installed correctly, print a Status Sheet. See "Printing a Status Sheet" on page 377.

Note for Windows users:
If EPSON Status Monitor is not installed, you have to make settings manually in the printer driver. See "Making Optional Settings" on page 95.

Note for Macintosh users:
When you have attached or removed printer options, you need to delete the printer using Print Setup Utility *(for Mac OS X 10.3),* Print Center *(for Mac OS X 10.2 or below), or* Chooser *(for Mac OS 9), and then re-register the printer.*

Removing the Hard Disk Drive

Caution:
Before you remove the Hard Disk Drive, be sure to discharge any static electricity by touching a grounded piece of metal. Otherwise, you may damage static-sensitive components.

Warning:
Be careful when working inside the printer as some components are sharp and may cause injury.

Perform the installation procedure in reverse.

Interface Card

Your printer comes with a Type B interface slot. Various optional interface cards are available to expand your printer's interface options.

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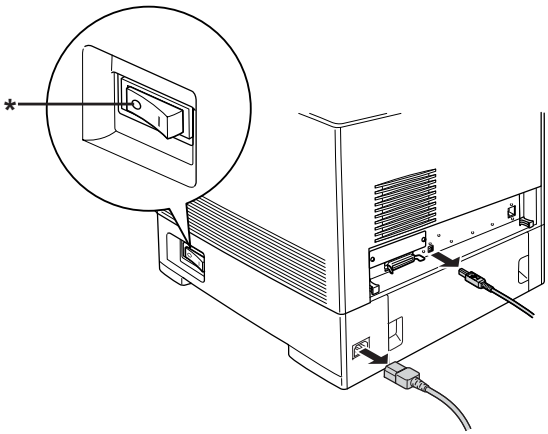
Installing an interface card

Follow the steps below to install an optional interface card.

Caution:
Before you install the interface card, be sure to discharge any static electricity by touching a grounded piece of metal. Otherwise, you may damage static-sensitive components.

1. Turn the printer off and unplug the power cord and all the interface cables.



* OFF

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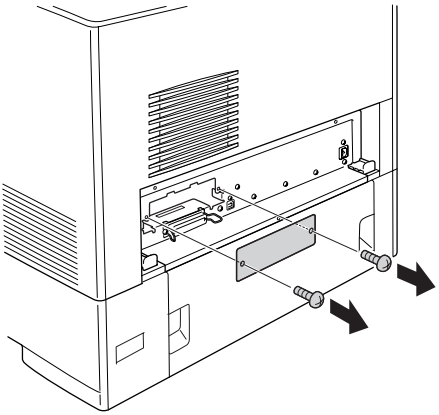
2. Remove the two screws and the Type B interface card slot cover as shown below.



Warning:
Do not remove screws and covers that are not described in the instructions.

Note:
Keep the slot cover in a safe place. You will need to reattach it if you remove the interface card later.

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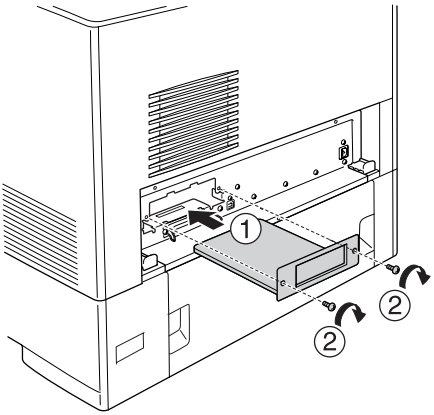
3. Slide and push the interface card into the slot firmly, then fasten the screw as shown below.



4. Reconnect all the interface cables and the power cord.

5. Plug the printer's power cord into an electrical outlet.

6. Turn on the printer.

To confirm that the option is installed correctly, print a Status Sheet. See "Printing a Status Sheet" on page 377.

Removing an interface card

Caution:
Before you remove an interface card, be sure to discharge any static electricity by touching a grounded piece of metal. Otherwise, you may damage static-sensitive components.

Perform the installation procedure in reverse.

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P5C Emulation Kit

The P5C Emulation kit is available as an option for this printer. This module allows your printer to print documents in the PCL5c printing language.

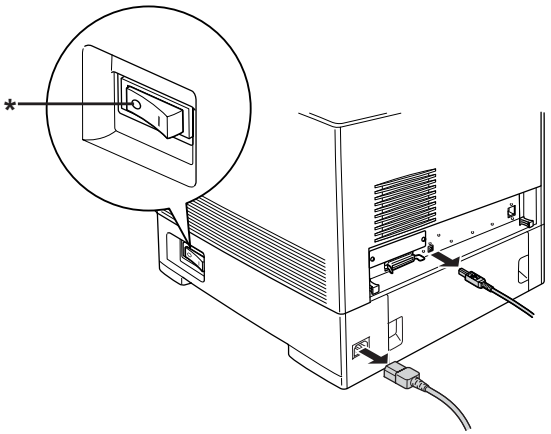
Installing the P5C ROM module

Follow the steps below to install the P5C ROM module.

Caution:
Before you install the ROM module, be sure to discharge any static electricity by touching a grounded piece of metal. Otherwise, you may damage static-sensitive components.

Warning:
Be careful when working inside the printer as some components are sharp and may cause injury.

1. Turn the printer off and unplug the power cord and interface cable.



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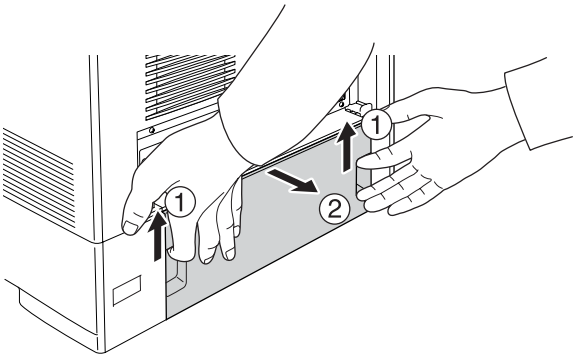
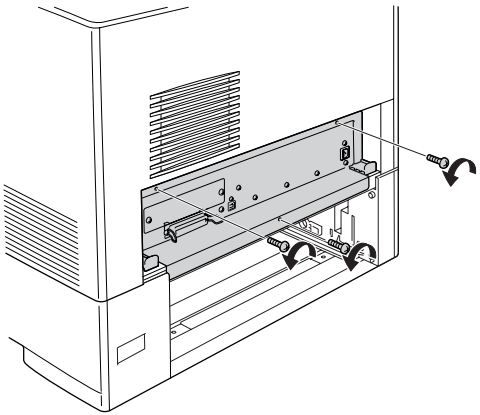
* OFF

Caution:
Make sure to unplug the power cord from the printer to prevent getting an electrical shock.

2. Remove the cover on the back of the standard lower cassette.



3. Loosen the three screws on the back of the printer.



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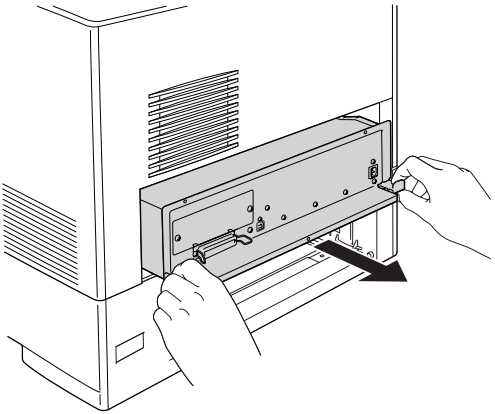
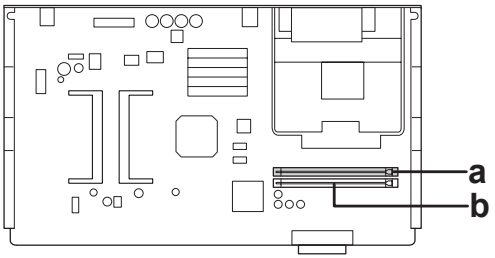
4. Pull out the circuit board tray.



5. Identify the ROM slot A. Its position is shown below.



a. ROM slot A
b. ROM slot P

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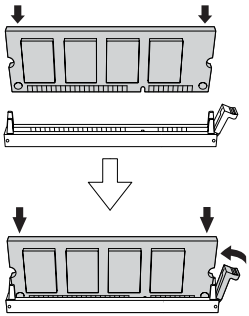
6. Hold the ROM module above the slot and insert it into the slot A in the orientation shown below, until the clip comes up to hold the ROM module securely in place.



Caution:

- ❏ *Do not apply too much force.*
- ❏ *Be sure to insert the ROM module in the correct direction.*
- ❏ *Never remove the ROM module installed on the standard ROM slot P.*

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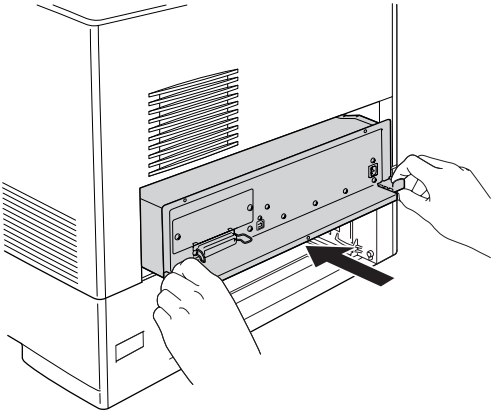
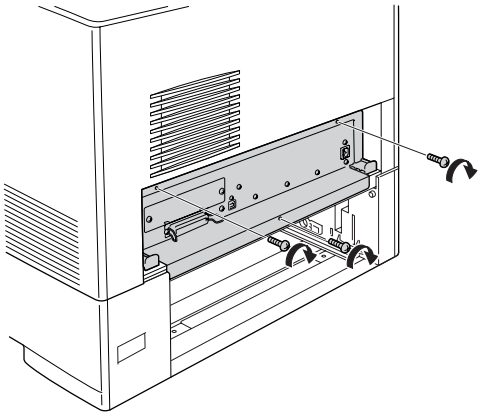
7. Slide the circuit board tray into the printer.



8. Fasten the circuit board tray with the three screws.



9. Reattach the cover.

10. Reconnect all the interface cables and the power cord.

11. Plug the printer's power cord into an electrical outlet.

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12. Turn on the printer.

To confirm that the option is installed correctly, print a Status Sheet. See "Printing a Status Sheet" on page 377.

If P5C is not listed as an installed emulation on the status sheet, try reinstalling the module. Make sure that it is securely seated into the ROM slot on the circuit board.

Removing the P5C ROM module

Caution:
Before you remove the ROM module, be sure to discharge any static electricity by touching a grounded piece of metal. Otherwise, you may damage static-sensitive components.

Warning:
Be careful when working inside the printer as some components are sharp and may cause injury.

Perform the installation procedure in revers.

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Chapter 9

Replacing Consumable Products

Replacement Messages

When you see the following messages on the LCD panel or the window of EPSON Status Monitor, replace the appropriate consumable products. You can continue to print for a short time after a message appears, but Epson recommends early replacement to maintain print quality and extend the life of your printer.

LCD Panel Message	Description
Worn Photoconductor	The photoconductor unit has reached the end of its service life. You need to prepare a new photoconductor unit and install it into the printer.
Worn Fuser	The fuser unit has reached the end of its service life.
Worn Transfer Unit	The transfer unit is near the end of its service life.

Note:
To clear the warning, select `Clear All Warning` *from the control panel's* `Reset Menu`.

If a consumable product reaches the end of its service life, the printer stops printing and displays the following messages on the LCD panel or the window of EPSON Status Monitor. When this happens, the printer cannot resume printing until you replace the depleted consumable products.

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LCD Panel Message	Description
Replace Toner uuuu*	The toner cartridge for the indicated color is empty.
Replace Photocondctr	The photoconductor unit has reached the end of its service life. Printing has stopped to avoid damage to the engine.
Replace Transfer Unit	The transfer unit has reached the end of its service life.

* The letters C, M, Y, or K appear in this position, indicating the color of the toner to be replaced. For example, the message `Y Toner Low` means that the amount of toner remaining in the yellow toner cartridge is low.

Note:
Messages appear for one consumable product at a time. After replacing a consumable product, check the LCD panel for replacement messages for other consumable products.

Toner Cartridge

Handling precautions

Always observe the following handling precautions when replacing the consumable products:

- ❏ Installing a genuine toner cartridge is recommended. Using a non-genuine toner cartridge may affect print quality. Epson shall not be liable for any damages or problems arising from the use of consumable products not manufactured or approved by Epson.

- ❏ When handling toner cartridge, always place them on a clean smooth surface.

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❏ Do not remove a toner cartridge until the `Replace Toner uuuu` message appears on the LCD panel. Otherwise, the toner may spill.

❏ If you have moved a toner cartridge from a cool to a warm environment, wait for at least one hour before installing it to prevent damage from condensation.

Warning:

❏ *Do not touch the toner. Keep the toner away from your eyes. If toner gets on your skin or clothes, wash it off with soap and water immediately.*

❏ *Keep consumable products out of the reach of children.*

❏ *Do not dispose of used consumable products in fire, as they may explode and cause injury. Dispose of them according to local regulations.*

❏ *If toner is spilled, use a broom and dustpan or a damp cloth with soap and water to clean it up. Because the fine particles can cause a fire or explosion if they come into contact with a spark, do not use a vacuum cleaner.*

Replacing a toner cartridge

Follow the steps below to replace a toner cartridge.

1. Confirm the color of the toner cartridge that needs to be replaced by checking the LCD panel or EPSON Status Monitor.

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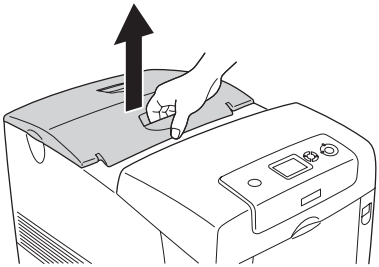
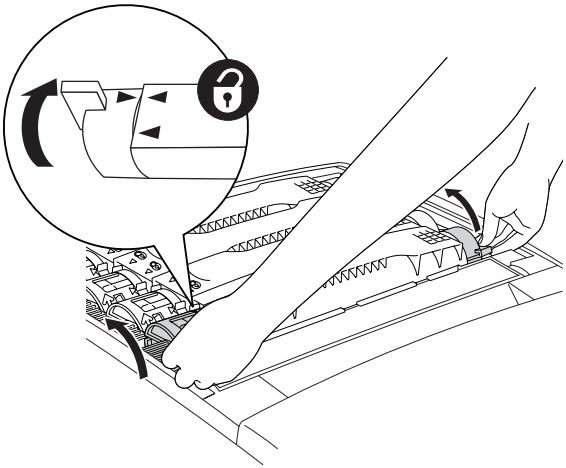
2. Remove the top cover.



3. Turn the toner cartridge knobs to the unlocked position.



Note:
Hold the knobs with both hands.

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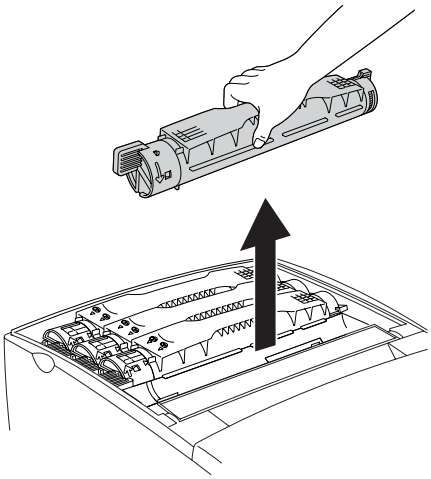
4. Lift the toner cartridge out of the slot.



Note:

- ❏ *A small amount of the toner may adhere to the bottom of the cartridge. Be careful not to spill this toner or get it on your skin or clothes.*

- ❏ *Put the used cartridge on a flat surface with the toner spout facing up to avoid spilling the toner.*

- ❏ *Dispose of the used toner cartridge by putting it into its disposal bag.*

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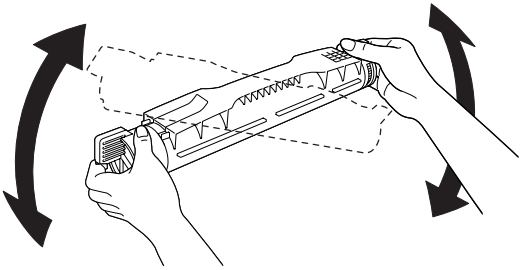
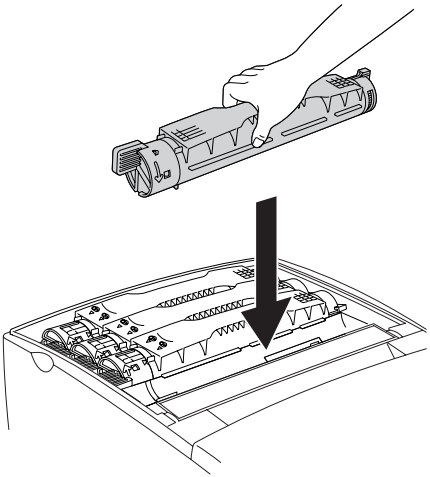
5. Take the new toner cartridge out of its package, and gently shake it from side to side and front to back to distribute the toner evenly.



Warning:
Do not remove the protective tape yet.

6. Hold the new toner cartridge as shown below, and lower it into the slot.



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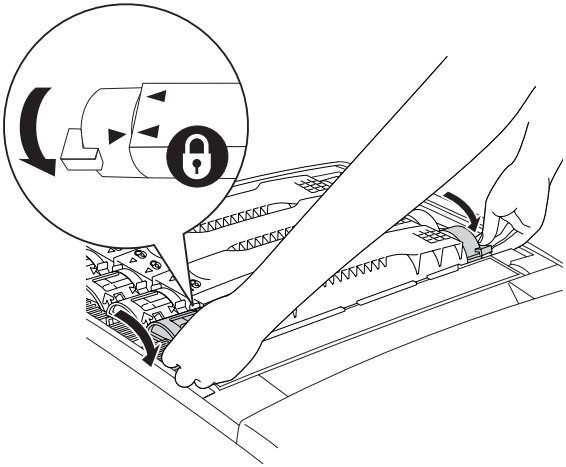
7. Turn the toner cartridge knob to the locked position.



Note:
Hold the knobs with both hands and turn them until they click.

Caution:
Be sure to turn the knob all the way to the locked position. Otherwise, you may have toner problems or leakage.

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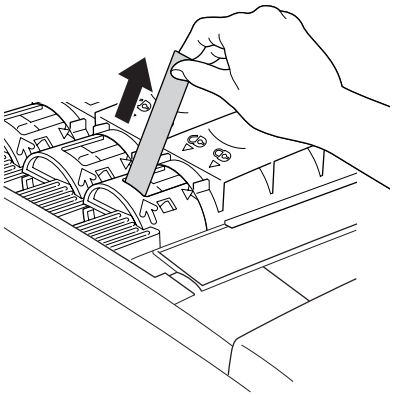
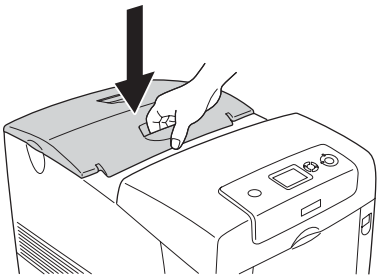
8. Remove the protective tape, pulling straight up from the toner cartridge. Make sure to pull the tape up slowly to avoid tearing it.



9. Replace the top cover.



Photoconductor Unit

Handling precautions

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Always observe the following handling precautions when replacing the consumable products:

- ❏ The photoconductor unit weighs 3.2 kg (7.1 lb). Be sure to hold it firmly by the handle when carrying it.
- ❏ When replacing the photoconductor unit, avoid exposing it to room light any longer than necessary.
- ❏ Be careful not to scratch the surface of the drum (green roller) and rollers (black rollers), Also, avoid touching the drum, since oil from your skin may permanently damage its surface and affect print quality.
- ❏ To get the best print quality, do not store the photoconductor unit in an area subject to direct sunlight, dust, salty air, or corrosive gases (such as ammonia). Avoid locations subject to extreme or rapid changes in temperature or humidity.
- ❏ Do not tilt the photoconductor unit.

Warning:

- ❏ *Do not dispose of the used consumable products in fire, as it may explode and cause injury. Dispose of it according to local regulations.*
- ❏ *Keep the consumable products out of the reach of children.*

Replacing the photoconductor unit

Follow the steps below to replace the photoconductor unit.

1. Turn off the printer.

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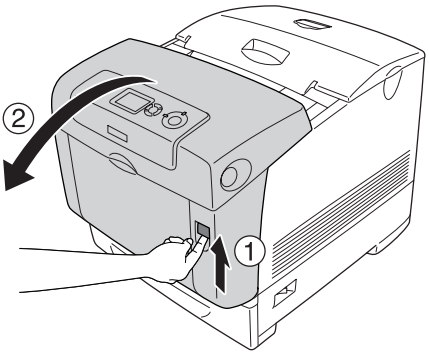
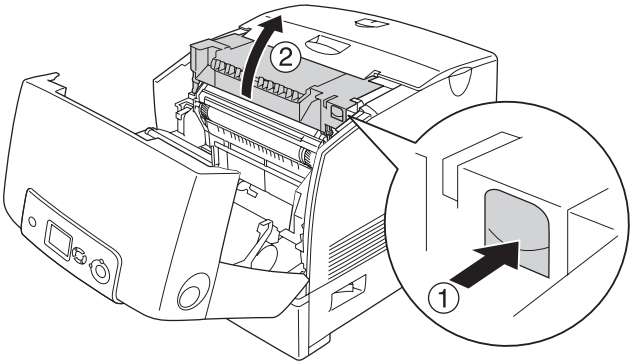
2. Press the latch on cover A and open the cover.



3. Raise cover D.



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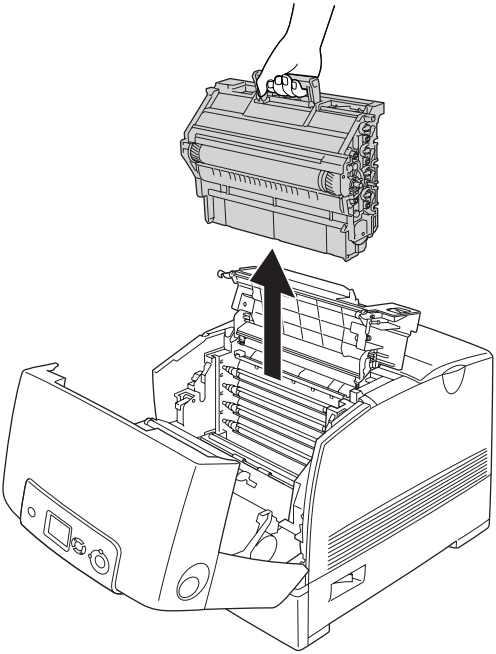
4. Hold the photoconductor unit by the handle, and slowly lift it straight out of the printer.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

5. Take the new photoconductor unit out of its package.

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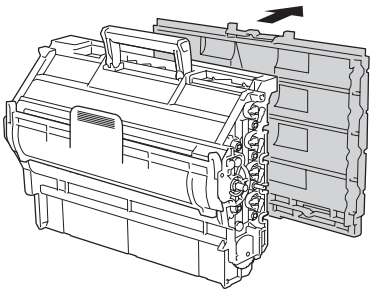
6. Remove the protective material from the back side of the photoconductor unit.



Caution:

- ❏ *Be careful not to touch or scratch the surface of the drum and rollers.*
- ❏ *Avoid touching the drum, since oil from your skin may permanently damage its surface and affect print quality.*

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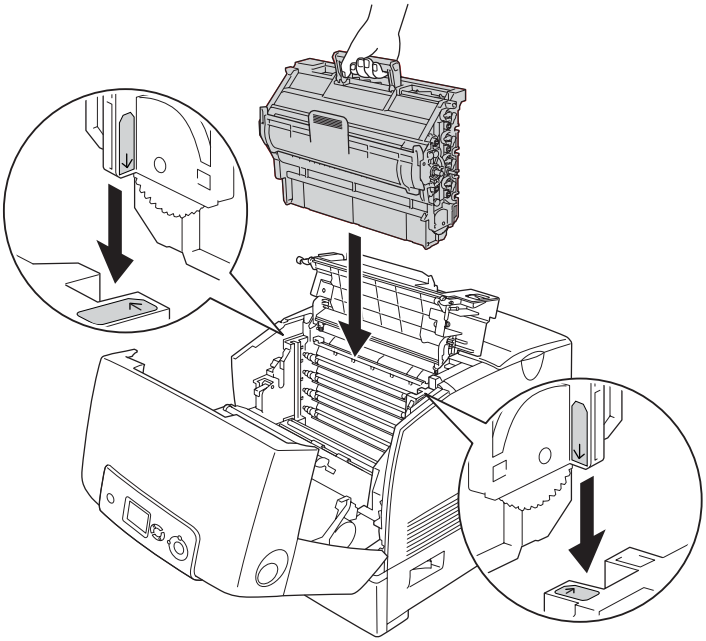
7. Holding the handle firmly, lower the photoconductor unit into the printer, making sure the posts on the sides of the unit slide into the slots.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

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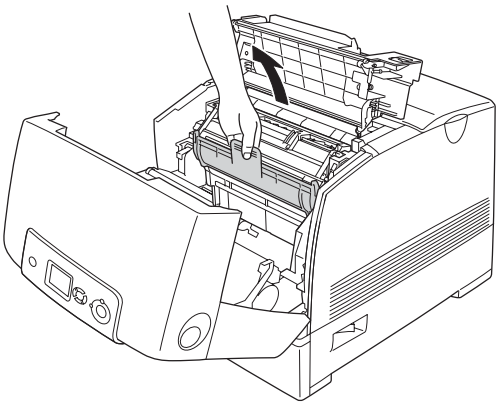
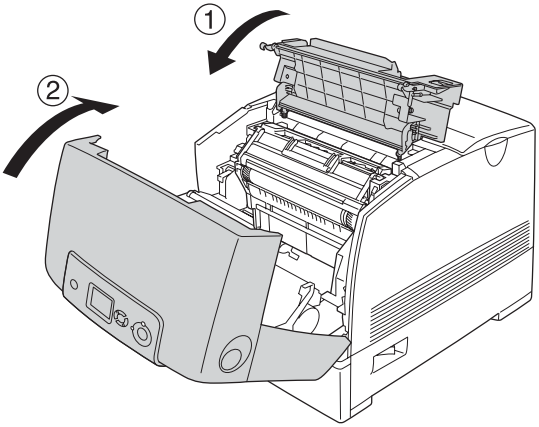
8. Remove the protective material from the front side of the photoconductor unit.



9. Close covers D and A.



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Fuser Unit

Handling precautions

Always observe the following handling precautions when replacing the consumable products.

Do not touch the surface of the consumable product. Doing so may impair print quality.

Warning:

- ❏ *The fuser unit can be very hot if the printer has been in use. Turn the printer off and wait for 30 minutes until the temperature has subsided before replacing the fuser unit.*
- ❏ *Keep the consumable products out of the reach of children.*

Replacing the fuser unit

Follow the steps below to replace the fuser unit.

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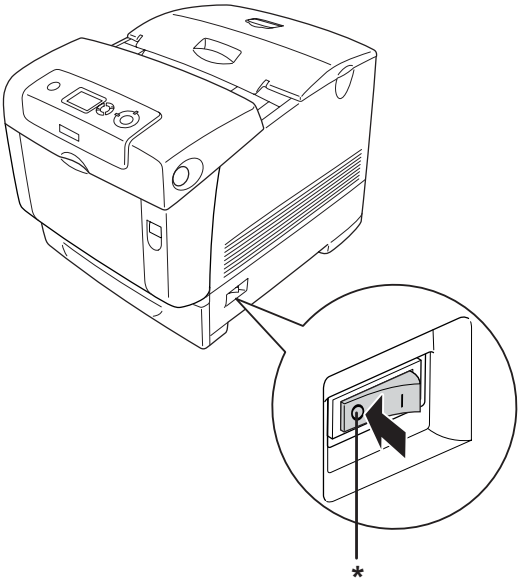
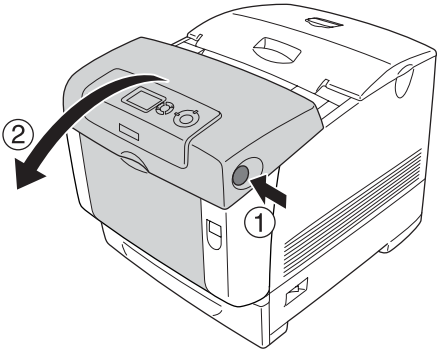
1. Turn off the printer, and wait for 30 minutes until the temperature has subsided.



* OFF

2. Press the latch on cover B and open the cover.



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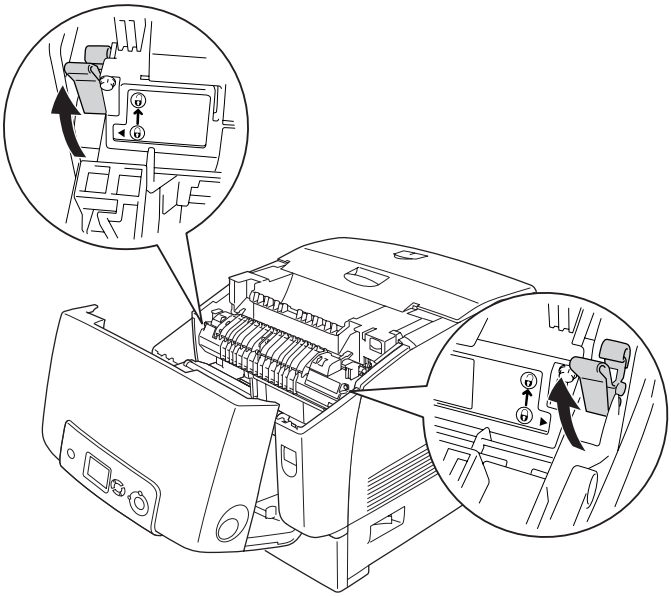
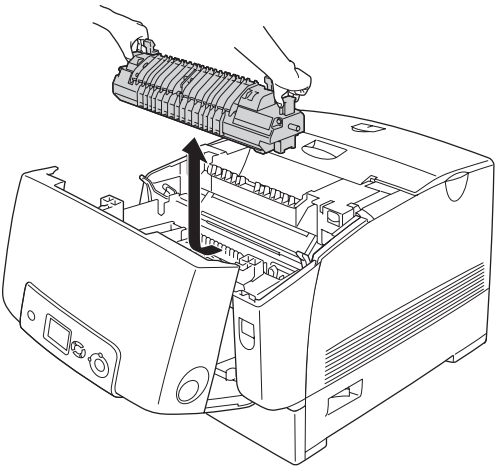
3. Unlock the lock levers on both sides of the fuser unit.



4. Lift the fuser unit out of the printer as shown below.



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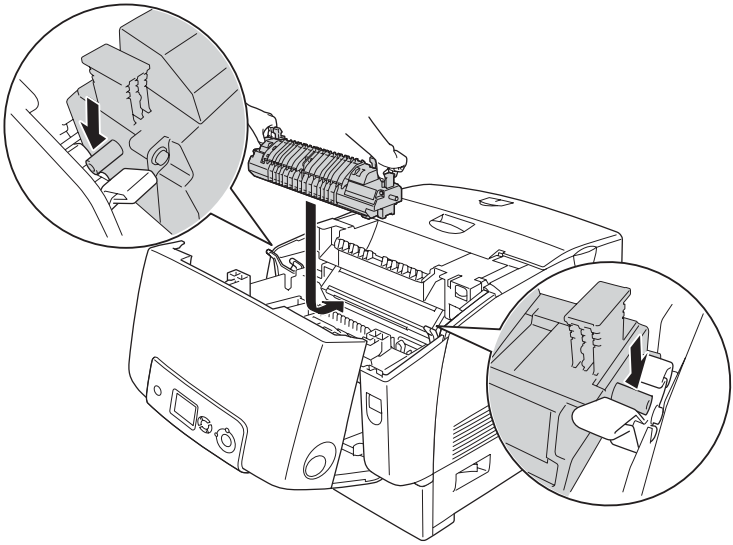
5. Take the new fuser unit out of its package.

6. Hold the new fuser unit by the handles and lower it into the printer making sure that the posts on the unit slide into the notches of the lock levers.



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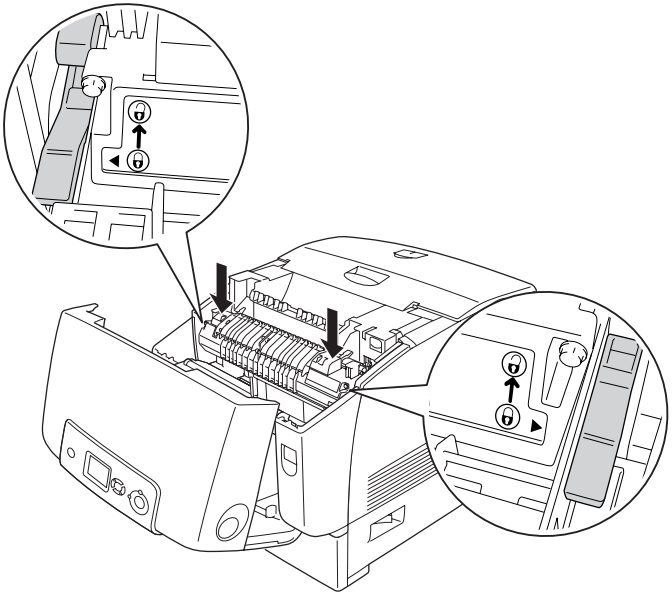
7. Push in on both sides of the fuser unit until the lock levers get to the lock positions.



Note:
Make sure that the lock levers are completely back to the locked position marked Lock.

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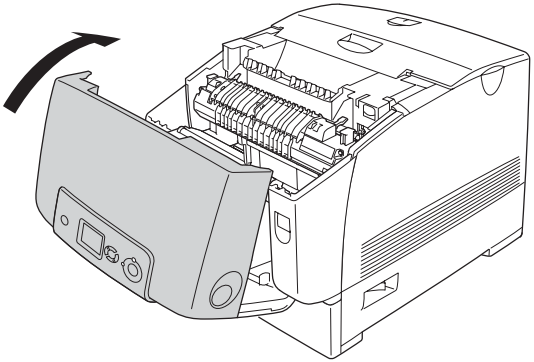
8. Close cover B.



Transfer Unit

Handling precautions

Always observe the following handling precautions when replacing the consumable products.

Do not touch the surface of the consumable product. Doing so may impair print quality.

Warning:

- ❏ *Do not dispose of the used consumable products in fire, as it may explode and cause injury. Dispose of it according to local regulations.*
- ❏ *Keep the consumable products out of the reach of children.*

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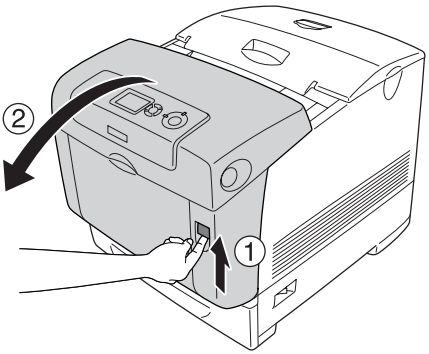
Replacing the transfer unit

Follow the steps below to replace the transfer unit.

1. Press the latch on cover A and open the cover.



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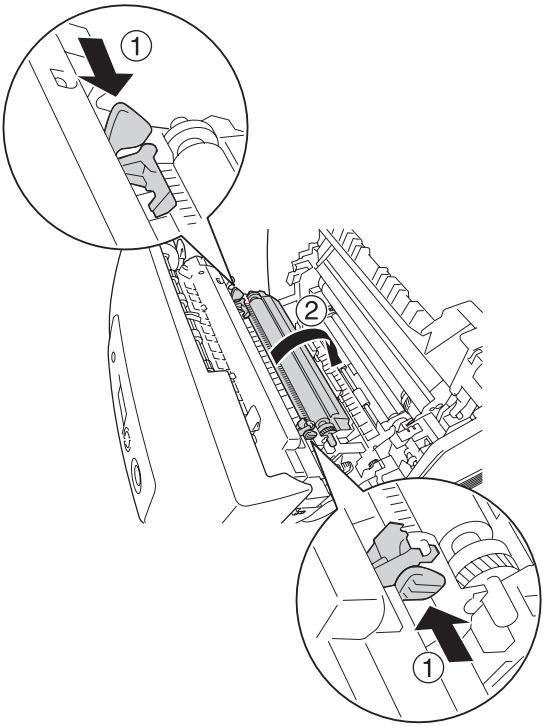
2. Grasp the two orange tabs and pull them up.



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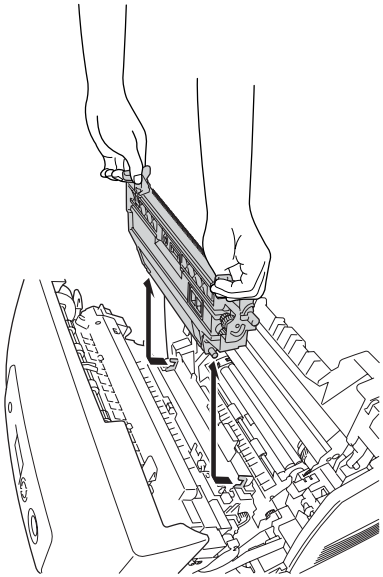
3. Pull the transfer unit out of the printer.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE*, or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

4. Take the new transfer unit from its package.

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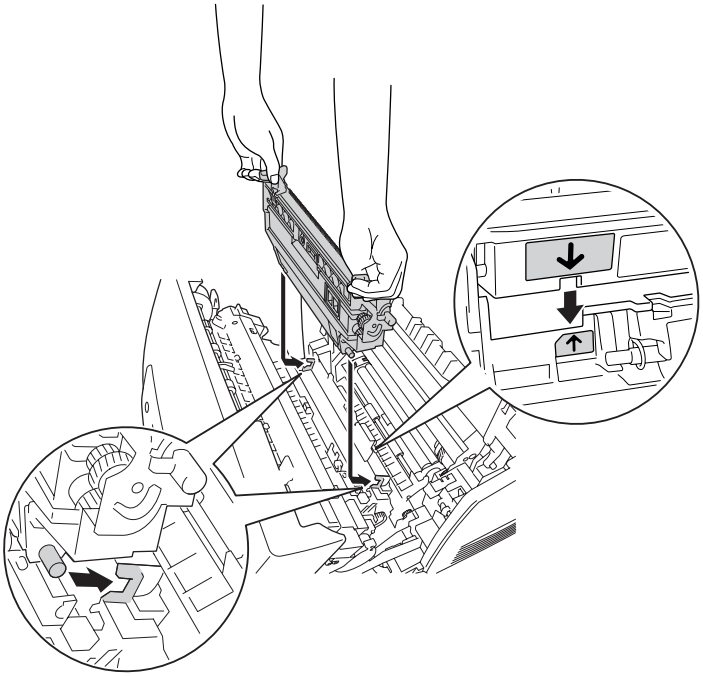
5. Hold the new transfer unit by the orange tabs and lower it so the arrow on the transfer unit and the arrow inside the printer line up. Make sure the posts of the transfer unit fit into the guides.



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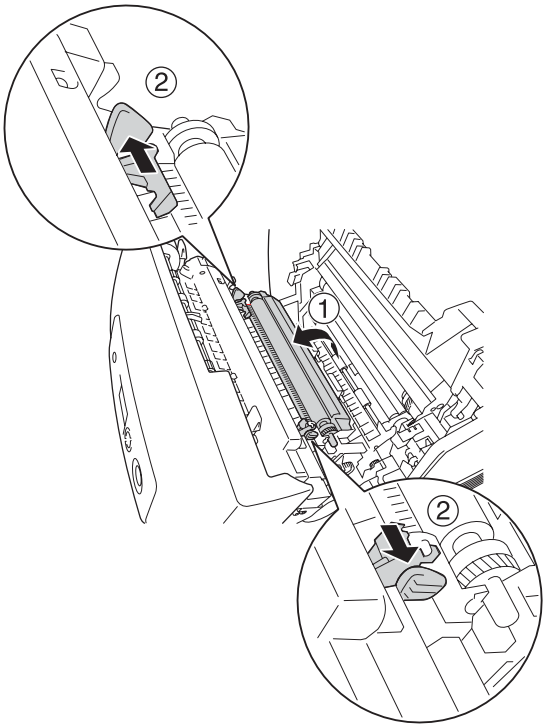
6. Pull the transfer unit toward you and push the orange tabs into place.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

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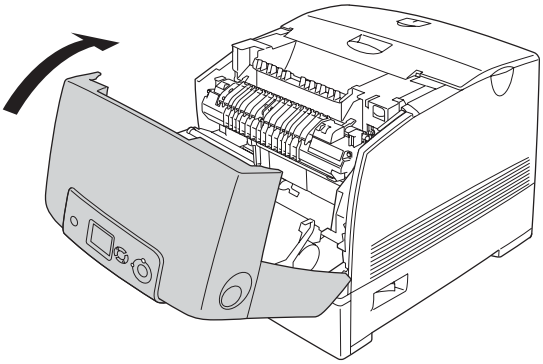
7. Close cover A.



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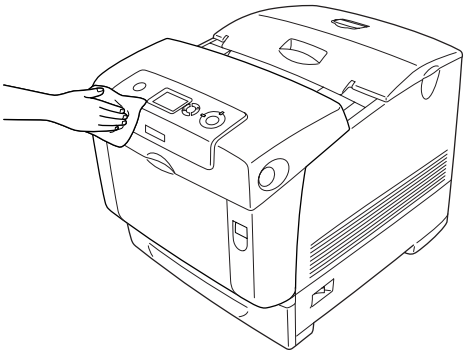
Chapter 10

Cleaning and Transporting the Printer

Cleaning the Printer

The printer needs only minimal cleaning. If the printer's outer case is dirty or dusty, turn off the printer and clean it with a soft, clean cloth moistened with a mild detergent.



Caution:
Never use alcohol or paint thinner to clean the printer cover. These chemicals can damage the components and the case. Be careful not to get water onto the printer mechanism or any electrical components.

Cleaning the density sensor

When `Clean Sensor` is displayed on the LCD panel, follow the steps below to clean the density sensor.

1. Turn off the printer.

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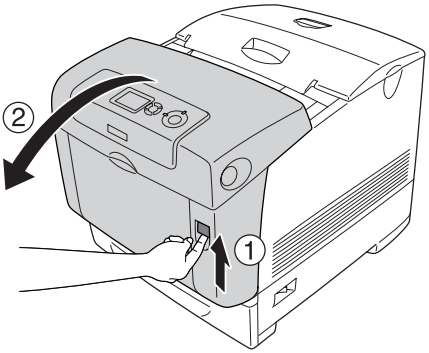
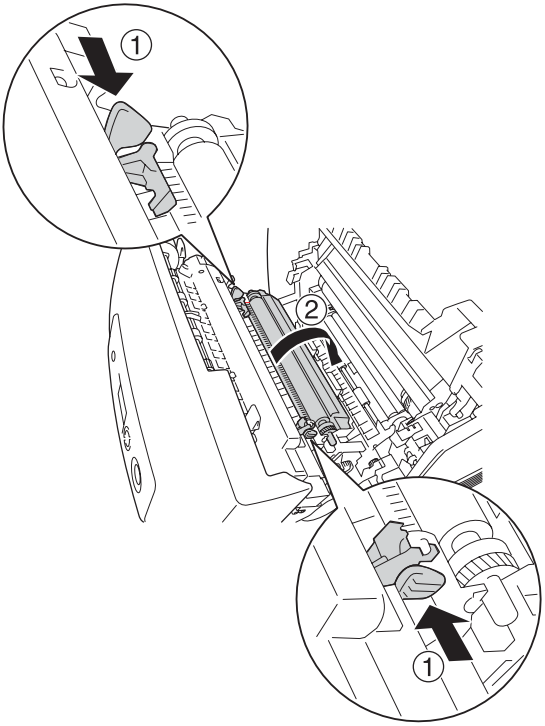
2. Press the latch on cover A and open the cover.



3. Grasp the two orange tabs and pull them up.



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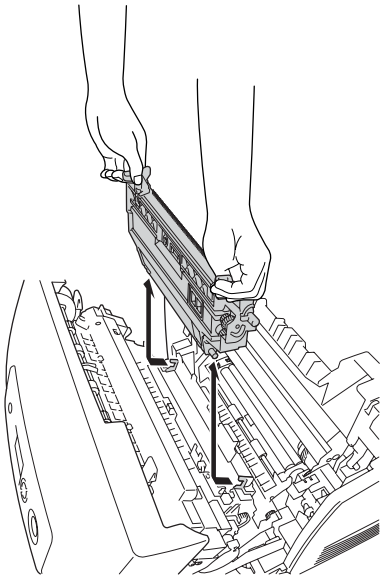
4. Pull the transfer unit out of the printer.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE*, or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

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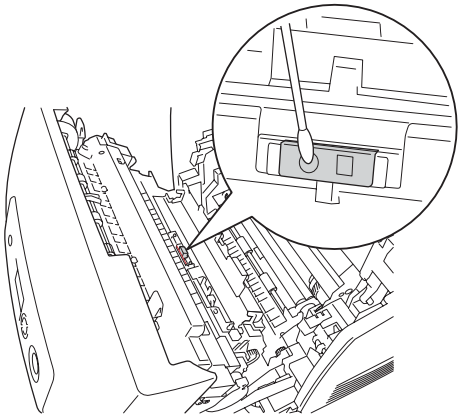
5. Gently wipe the transparent plastic window on the density sensor with a dry soft cloth or cotton swab.



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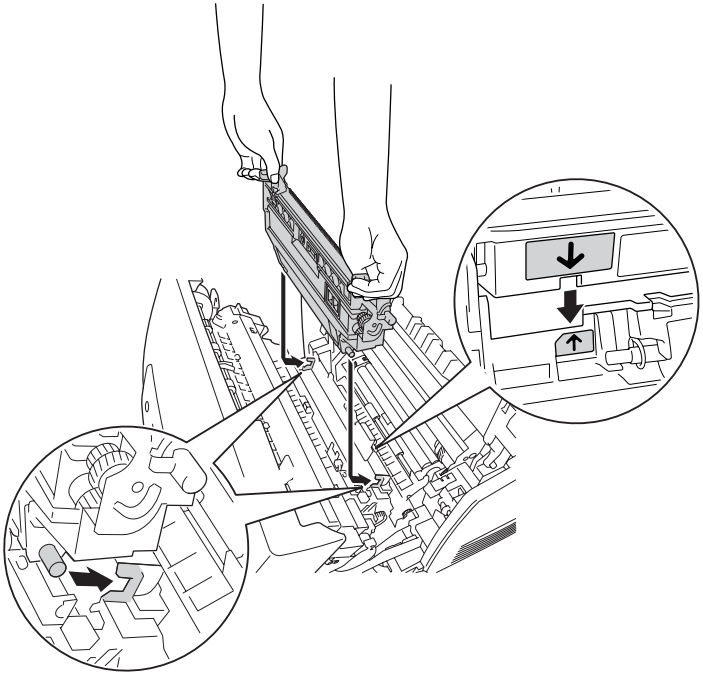
6. Hold the transfer unit by the orange tabs and lower it into the printer, making sure that it fits into the guides. Push the transfer unit in and up until it clicks into place.



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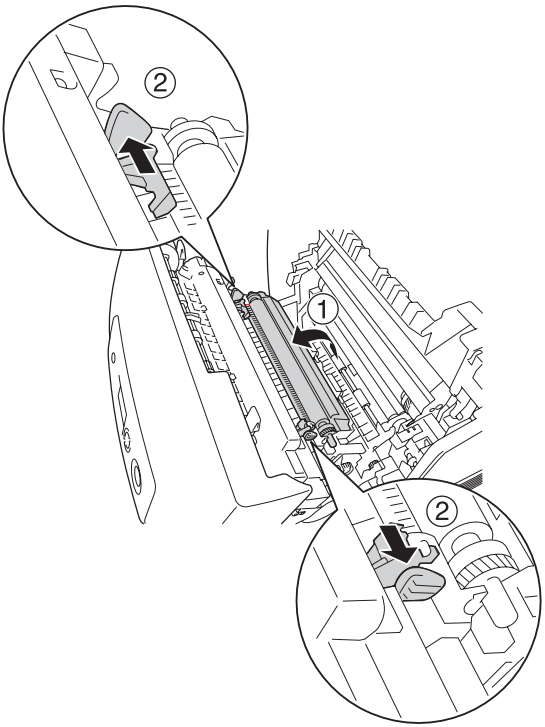
7. Pull the transfer unit toward you and push the orange tabs into place.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

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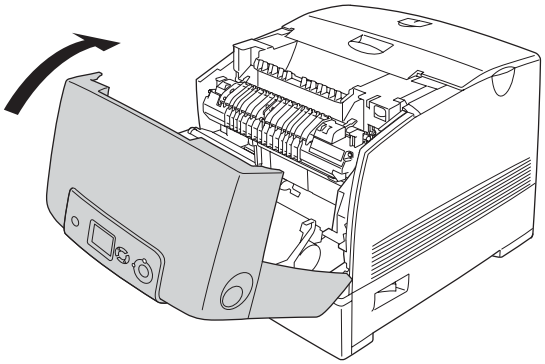
8. Close cover A.



9. Turn on the printer.

Cleaning the photoconductor unit

If printouts have dots at every 30 mm, wipe a roller in the photoconductor unit with a dry soft cloth or cotton swab.

Follow the steps below to clean the photoconductor unit.

Caution:
Do not take too much time to clean the photoconductor. Exposing the photoconductor to too much light may damage the printer.

1. Turn off the printer.

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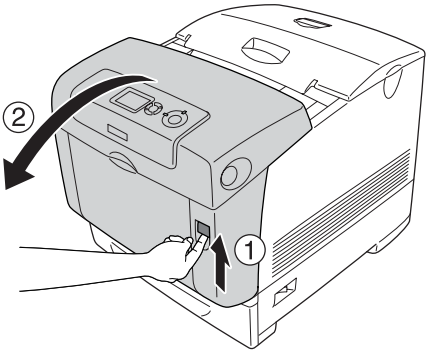
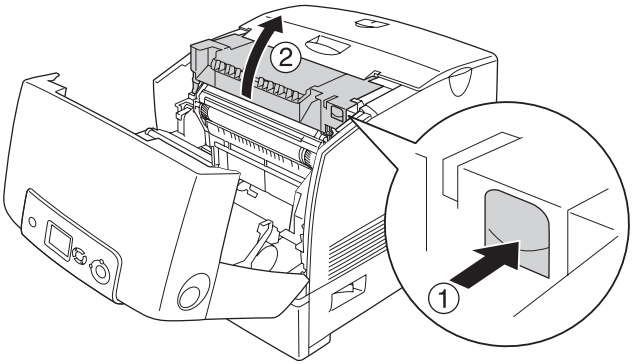
2. Press the latch on cover A and open the cover.



3. Raise cover D.



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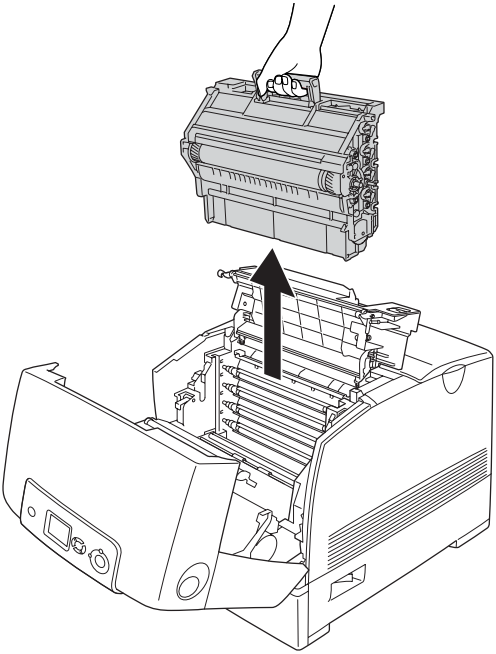
4. Hold the photoconductor unit by the handle, and slowly lift it straight out of the printer.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

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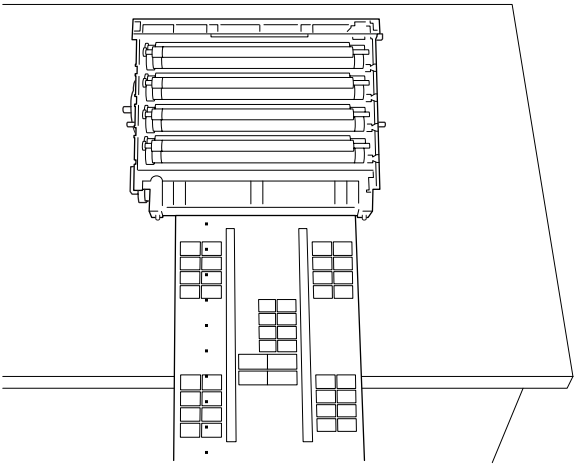
5. Place the printout that has dots on it and the photoconductor unit on a flat table as shown below.



Note:

- ❏ *Make sure to align the center of the printout and center of the photoconductor unit when positioning them.*

- ❏ *Place the printout faceup so the short edge that comes out of the printer first is against the photoconductor unit as shown in the diagram.*

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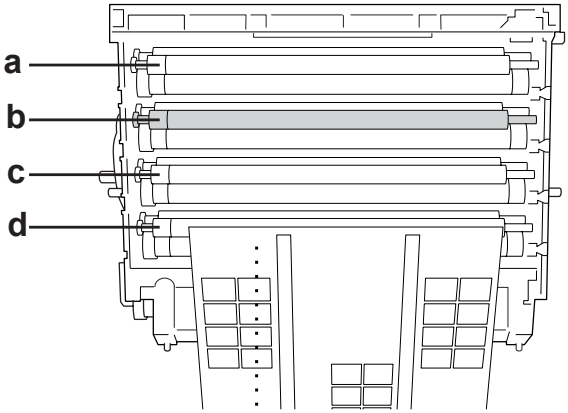
6. Look for the roller that is the same color as the dots on the printout. Then, look for the place on the roller that is vertically in the same position as the dots on the printout.



a. Yellow
b. Magenta
c. Cyan
d. Black

Note:
The illustration indicates that the dots on the printout are magenta as an example.

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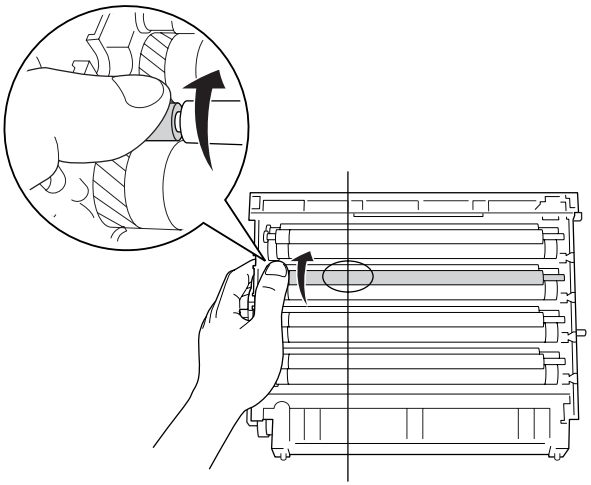
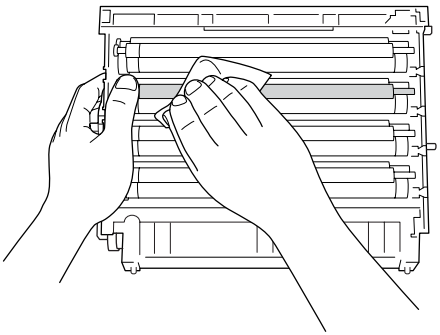
7. Turn the gray part of the black roller to find the spot.



Caution:
Be careful not to scratch the surface of the drum and rollers. Also, avoid touching the drum and rollers, since oil from your skin may permanently damage their surface and affect print quality.

8. Wipe the spot off the black roller with a dry soft cloth or cotton swab.



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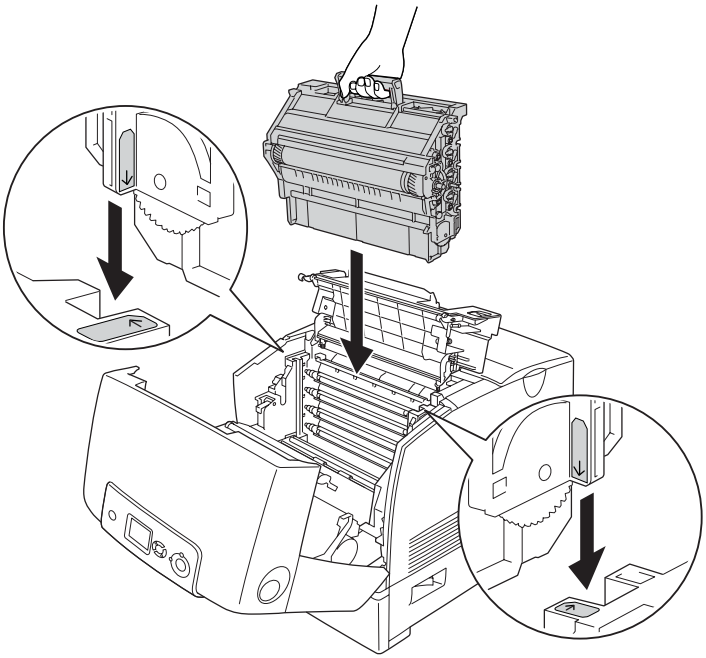
Caution:

- ❏ *Be careful not to scratch the surface of the drum (green roller) and rollers (black rollers). Also, avoid scratching the drum and rollers, since oil from your skin may permanently damage their surface and affect print quality.*
- ❏ *Do not expose the photoconductor unit and the developer cartridge to light any longer than necessary.*
- ❏ *Do not store the photoconductor unit in an area subject to direct sunlight.*

9. Holding the handle firmly, lower the photoconductor unit into the printer, making sure the posts on the sides of the unit slide into the slots.



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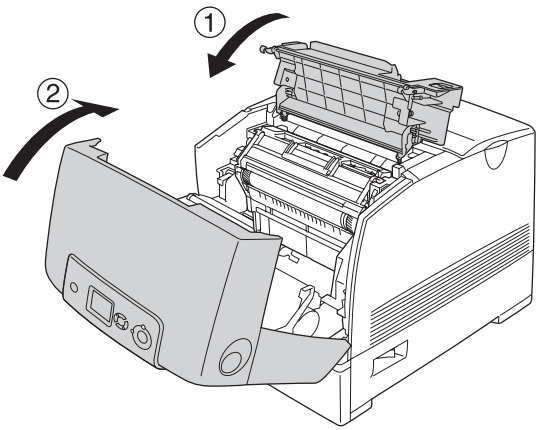
Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE*, or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

10. Close covers D and A.



11. Turn on the printer.

Transporting the Printer

Finding a place for the printer

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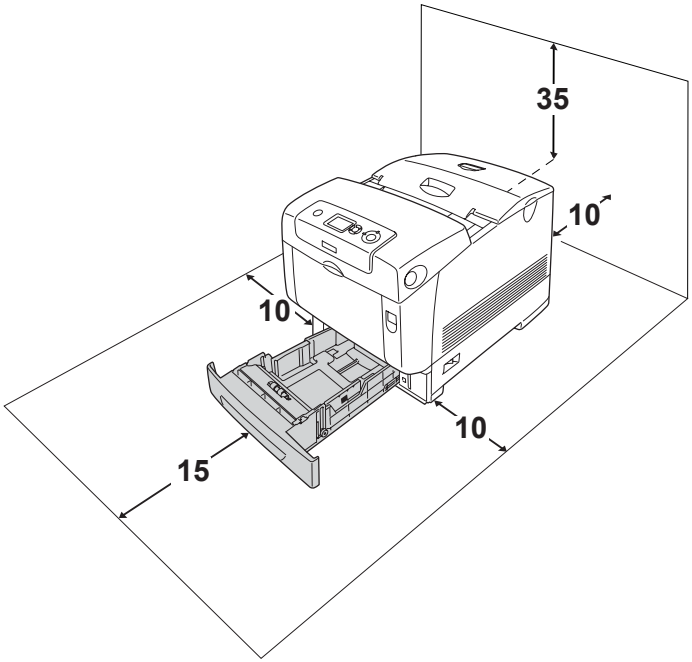
When relocating the printer, always choose a location that has adequate space for easy operation and maintenance. Use the following illustration as a guide for the amount of space required around the printer to ensure smooth operation. Dimensions shown in the illustrations below are in centimeters.



To install and use any of the following options, you will need the indicated amount of additional space.

The 550-sheet paper cassette unit adds 127 mm (5.0 in.) to the bottom of the printer.

The 1100-sheet paper cassette unit adds 339 mm (13.3 in.) to the bottom of the printer.

In addition to space considerations, always heed the following precautions when finding a place to locate the printer:

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❏ Place the printer where you can easily unplug the power cord.

❏ Keep the entire computer and printer system away from potential sources of interference, such as loudspeakers or the base units of cordless telephones.

❏ Avoid using an electrical outlet that is controlled by wall switches or automatic timers. Accidental disruption of power can erase valuable information in your computer's and printer's memory.

Caution:

❏ *Leave adequate room around the printer to allow for sufficient ventilation.*

❏ *Avoid locations that are subject to direct sunlight, excessive heat, moisture, or dust.*

❏ *Avoid using outlets that other appliances are plugged into.*

❏ *Use a grounded outlet that matches the printer's power plug. Do not use an adapter plug.*

❏ *Only use an outlet that meets the power requirements for this printer.*

For long distances

Repacking the printer

If you need to transport your printer for long distances, carefully repack it using the original box and packing materials.

Follow the steps below to repack your printer.

1. Turn off the printer and remove the following items:

   ❏ Power cord

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- ❏ Interface cables
- ❏ Loaded paper
- ❏ Photoconductor unit
- ❏ Installed options

2. Attach the protective materials onto the printer, then repack the printer in its original box.

Checking color registration

If you transported your printer for a long distance, you need to check the color registration for possible misalignment. For instructions, see "Checking Color Registration" on page 268.

For short distances

Always pay attention to the following handling precautions when you need to move the printer for short distances.

If you are moving the printer on its own, two people should lift and carry the printer.

Follow the steps below to move the printer for short distances.

1. Turn off the printer and remove the following items:
   - ❏ Power cord
   - ❏ Interface cables
   - ❏ Loaded Paper
   - ❏ Photoconductor unit
   - ❏ Installed options

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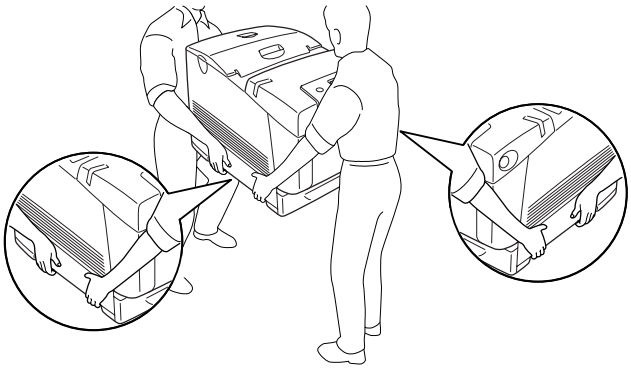
Note:
If the 1100-sheet paper cassette unit is installed, unlock the four feet at the bottom of the unit, then roll the printer to the new location. Make sure to lock the feet after relocating the printer.

2. Be sure to lift the printer by the correct positions as shown below.



Caution:
When moving the printer, always keep it horizontal.

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Chapter 11

Troubleshooting

Clearing Jammed Paper

If paper becomes jammed in the printer, the printer's LCD panel and EPSON Status Monitor provide alert messages.

Precautions for clearing jammed paper

Be sure to observe the following points when you clear jammed paper.

- ❏ Do not remove jammed paper by force. Torn paper can be difficult to remove and might cause other paper jams. Pull it gently in order to avoid tearing.
- ❏ Always try to remove jammed paper with both hands to avoid tearing it.
- ❏ If jammed paper is torn and remains in the printer, or if paper is jammed in a place not mentioned in this section, contact your dealer.
- ❏ Make sure that the paper type that is loaded is the same as the Paper Type setting in the printer driver.

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Warning:

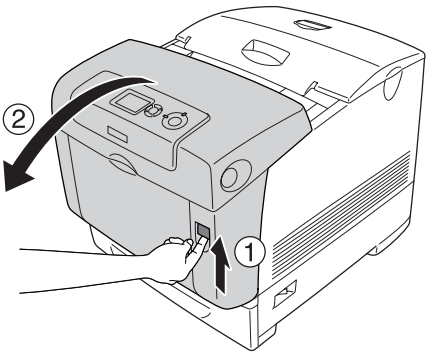
- ❏ *Be careful not to touch the fuser, which is marked* CAUTION HIGH TEMPERATURE*, or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

- ❏ *Do not insert your hand deep into the fuser unit as some components are sharp and may cause injury.*

Paper Jam A B

Follow the steps below to clear the jammed paper at cover A and B.

1. Press the latch on cover A and open the cover.



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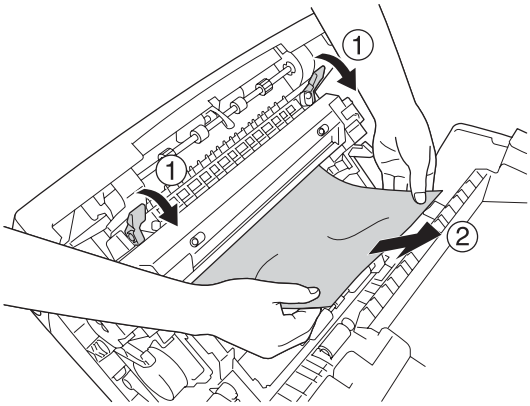
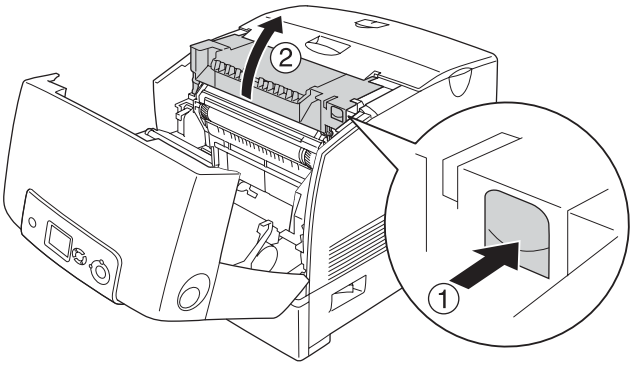
2. Push the inner green levers of the fuser unit down, and gently pull out any sheets of paper with both hands.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE*, or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

3. Open cover D.



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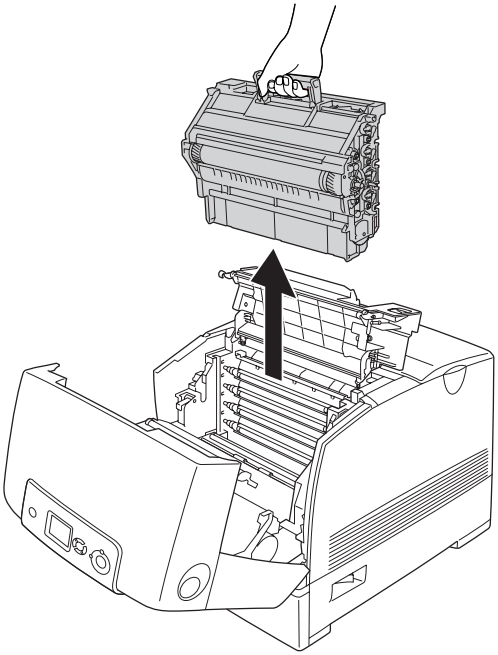
4. Grasp the handle of the photoconductor unit firmly and remove the unit from the printer.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

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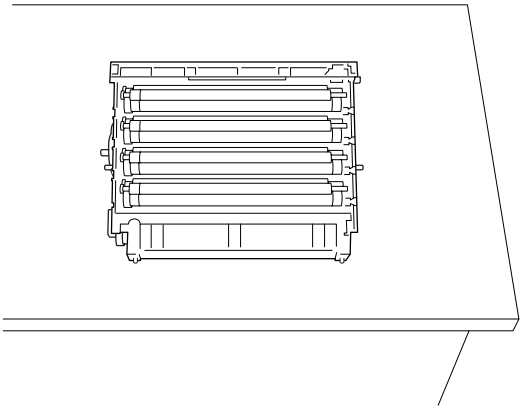
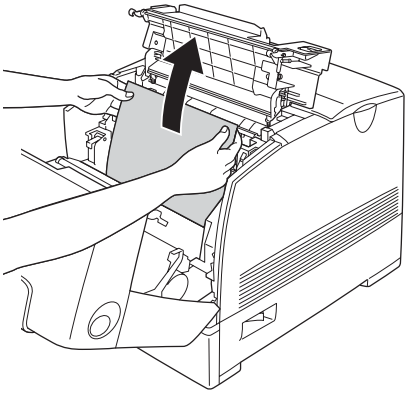
Note:
Make sure to place the photoconductor unit on the flat surface as shown below.



5. Gently pull out any sheets of paper with both hands.



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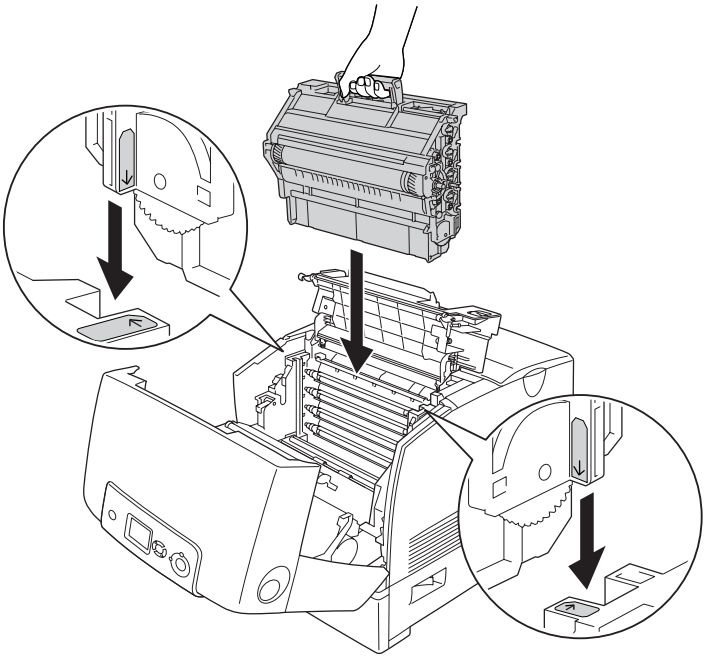
Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

Caution:
Do not touch the rollers inside the printer.

6. Reinstall the photoconductor unit, making sure the posts on the sides of the unit slide into the slots.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

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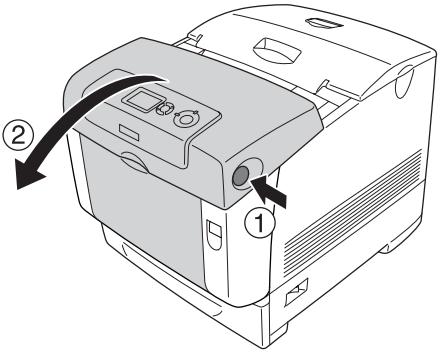
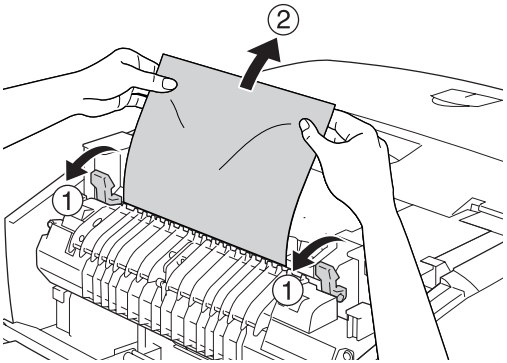
7. Close cover D and A.

8. Press the latch on cover B and open the cover.



9. Pull down the outer green knobs to open the paper path, and gently pull out any sheets of paper with both hands.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

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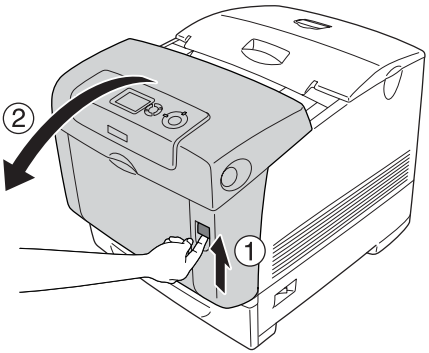
10. Close cover B.

When the paper jam is cleared completely and the covers are closed, printing resumes from the page that jammed.

Paper Jam A

Follow the steps below to clear the jammed paper at cover A.

1. Press the latch on cover A and open the cover.



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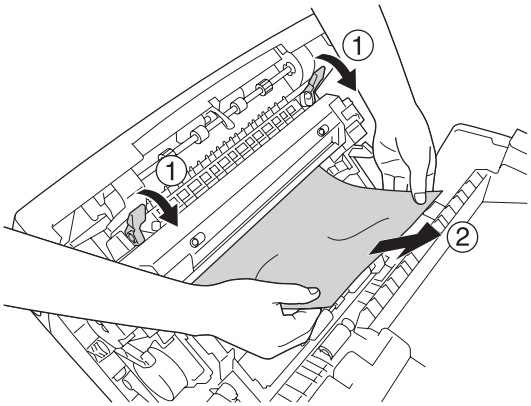
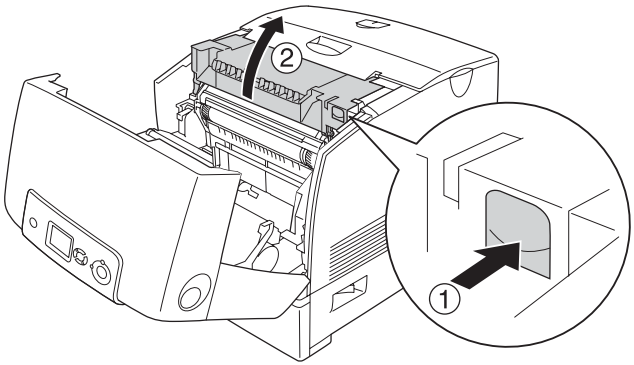
2. Gently pull out any sheets of paper with both hands.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

3. Open cover D.



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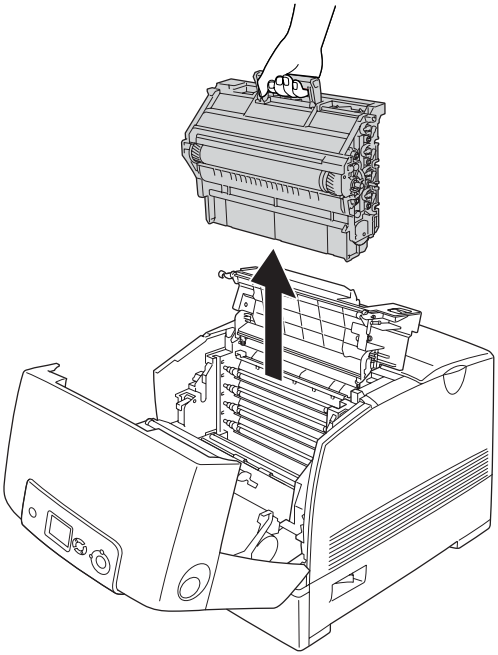
4. Grasp the handle of the photoconductor unit firmly and remove the unit from the printer.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

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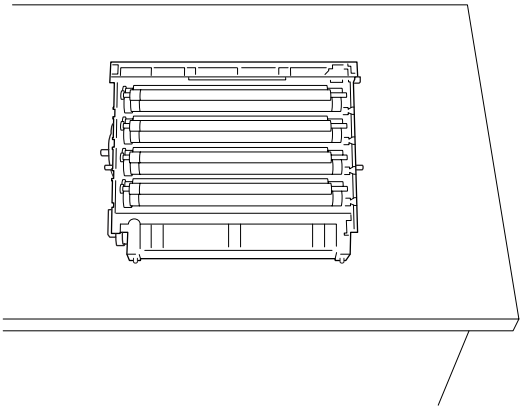
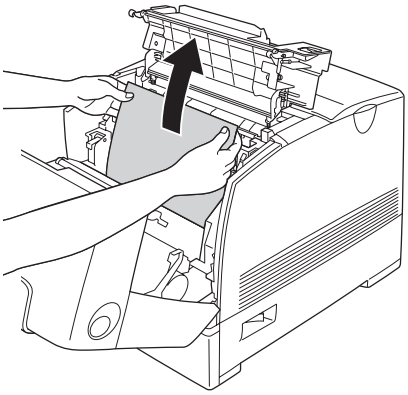
Note:
Make sure to place the photoconductor unit on the flat surface as shown below.



5. Gently pull out any sheets of paper with both hands.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

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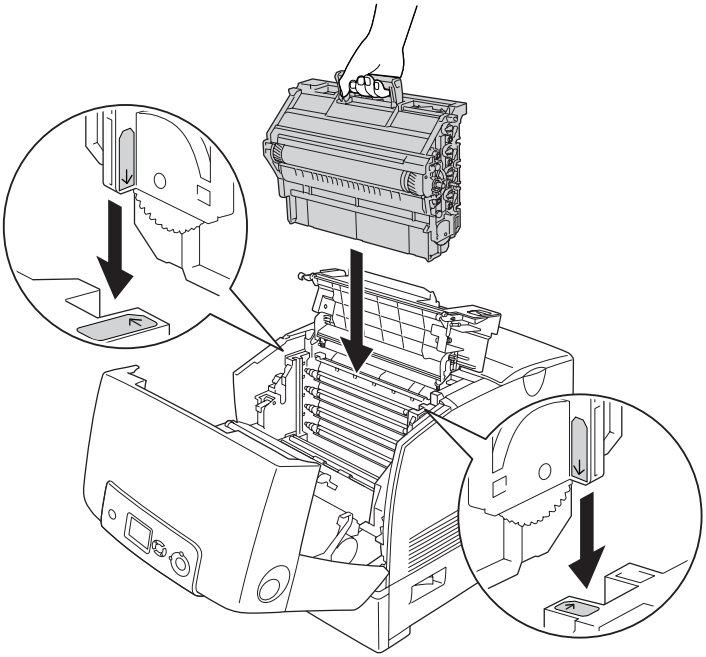
Caution:
Do not touch the rollers inside the printer.

6. Reinstall the photoconductor unit, making sure the posts on the sides of the unit slide into the slots.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

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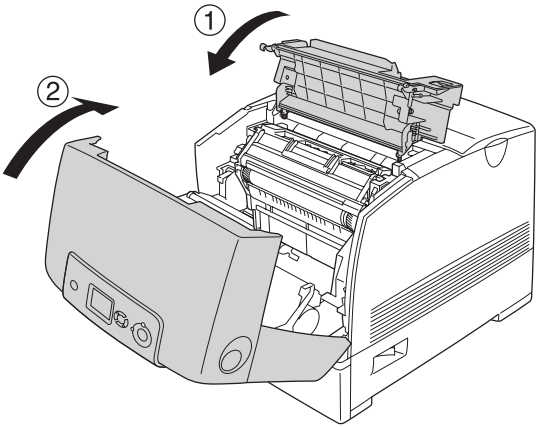
7. Close cover D and A.



When the paper jam is cleared completely and cover D and A are closed, printing resumes from the page that jammed.

Paper Jam C A

Follow the steps below to clear the jammed paper at cover A and in the MP tray or paper cassette unit.

1. Remove the paper set in the MP tray. If the paper is jammed in the MP tray, gently pull out any sheets of paper with both hands.

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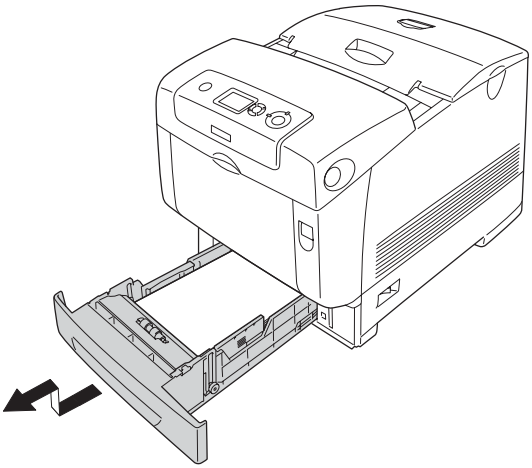
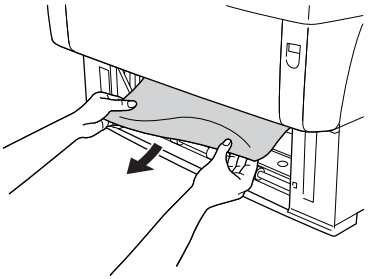
2. Remove the paper cassette from the printer and discard any crumpled paper.



Note:
The illustration shows the standard lower cassette. If the optional paper cassette unit is installed, check the unit's cassettes in the same way.

3. Gently pull out any sheets of paper with both hands.



Note:
Confirm that the jammed paper is not still deep inside the printer.

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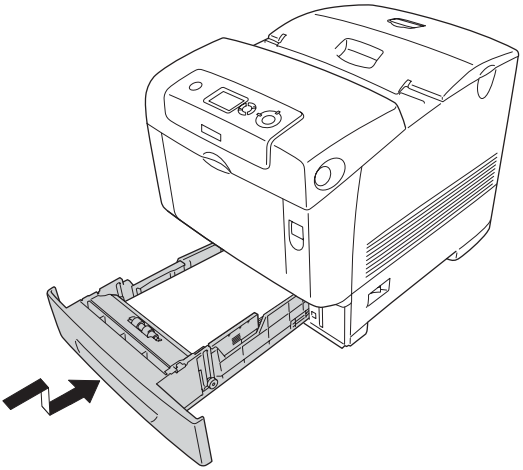
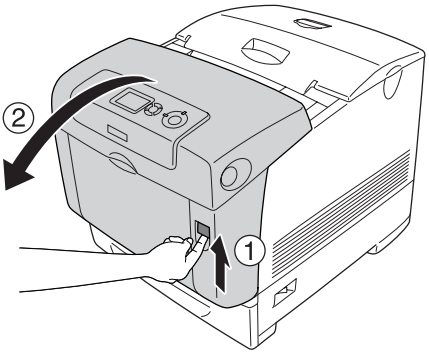
4. Reinsert the paper cassette into the printer.



5. Press the latch on cover A and open the cover.



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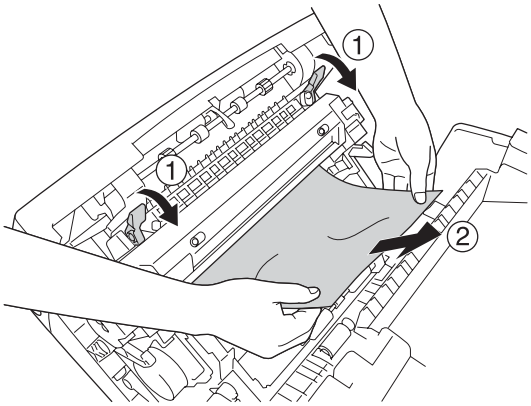
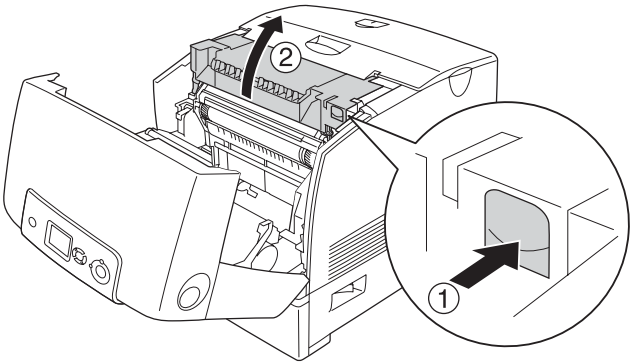
6. Gently pull out any sheets of paper with both hands.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

7. Open cover D.



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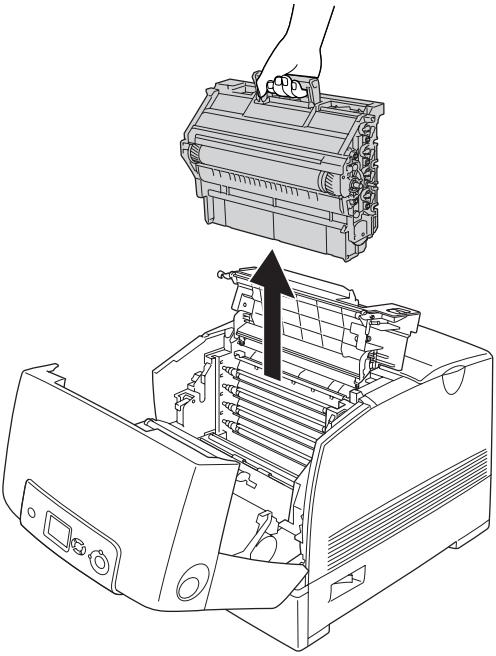
8. Grasp the handle of the photoconductor unit firmly and remove the unit from the printer.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

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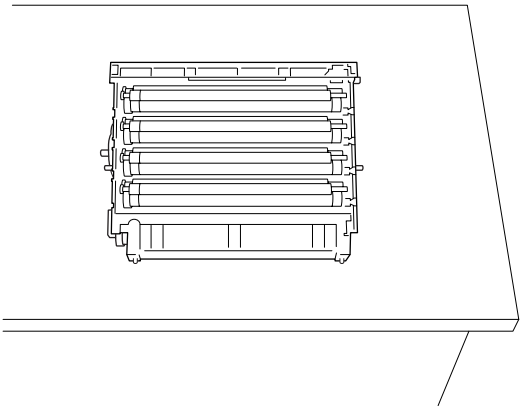
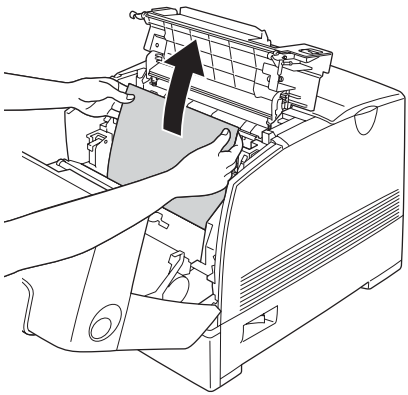
Note:
Make sure to place the photoconductor unit on the flat surface as shown below.



9. Gently pull out any sheets of paper with both hands.



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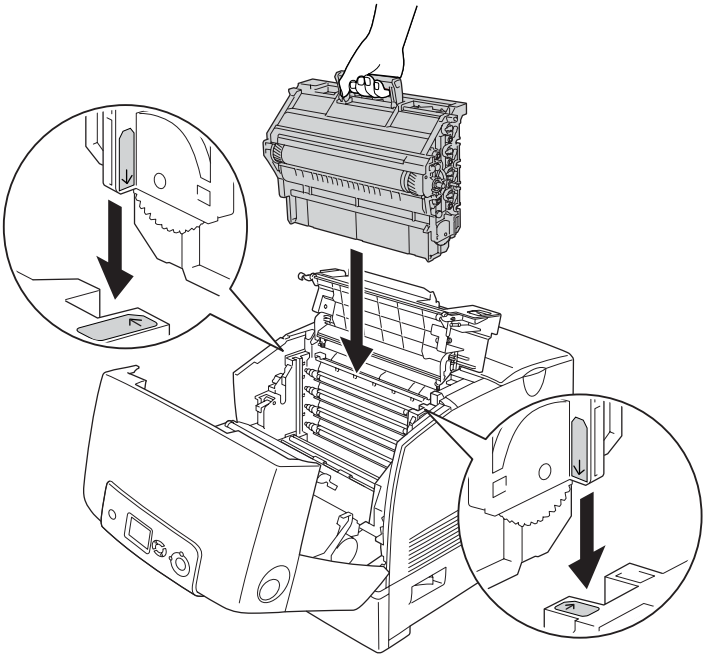
Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

Caution:
Do not touch the rollers inside the printer.

10. Reinstall the photoconductor unit, making sure the posts on the sides of the unit slide into the slots.



Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE, *or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

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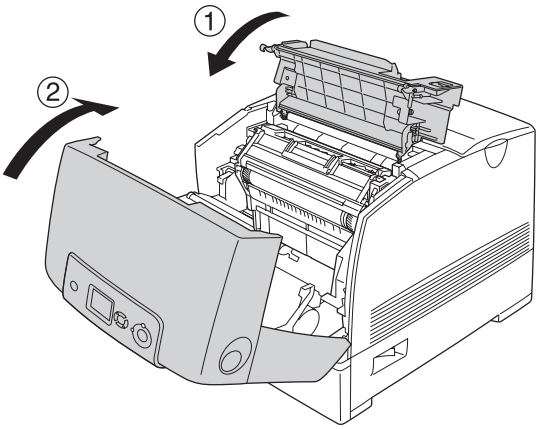
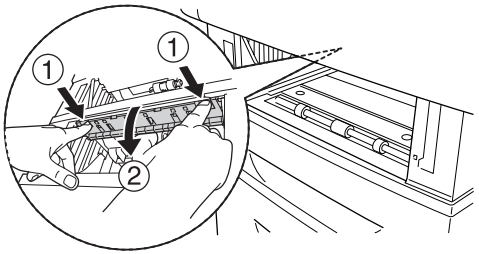
11. Close cover D and A.



Note:
When a paper jam occurs repeatedly at the paper cassettes (Jam CA or Jam CAB), jammed or crumpled paper may still be inside the paper cassettes. Remove the paper cassettes, then open the green unit that is located on the top part of the inside of the cassette slot, and check whether any jammed paper is there. Before reinstalling the paper cassette, make sure to close the green unit completely, otherwise you may damage the printer.



When the paper jam is cleared completely and cover D and A are closed, printing resumes from the page that jammed.

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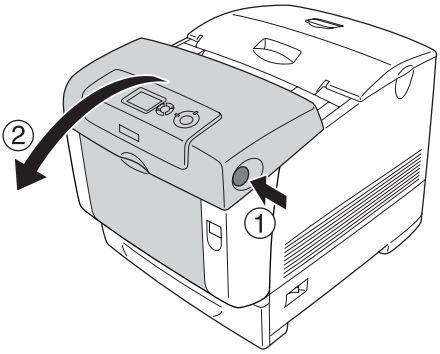
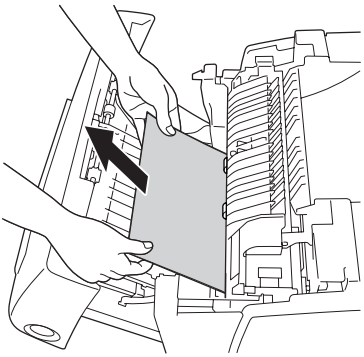
Paper Jam B

Follow the steps below to clear the jammed paper at cover B.

1. Press the latch on cover B and open the cover.



2. Gently pull out any sheets of paper with both hands.



Note:
Be sure to remove the jammed paper by pulling it upward.

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Warning:
Be careful not to touch the fuser, which is marked CAUTION HIGH TEMPERATURE*, or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

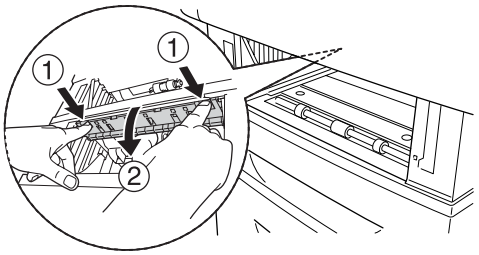
3. Close cover B.

When the paper jam is cleared completely and cover B is closed, printing resumes from the page that jammed.

Paper Jam C A B

To clear the paper jam, first clear the jammed paper where paper feeds, as described in "Paper Jam C A" on page 367. Then, clear the jammed paper at the duplex unit as described in "Paper Jam B" on page 375.

Note:
When a paper jam occurs repeatedly at the paper cassettes (Jam CA or Jam CAB), jammed or crumpled paper may still be inside the paper cassettes. Remove the paper cassettes, then open the green unit that is located on the top part of the inside of the cassette slot, and check whether any jammed paper is there. Before reinstalling the paper cassette, make sure to close the green unit completely, otherwise you may damage the printer.



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When transparencies are jammed at the MP tray

When the LCD panel displays the Check Transparency error message, there may be paper jammed at the MP tray.

Remove the paper from the MP tray and remove any jammed paper. Open cover A, check that no jammed paper is left inside the cover, and close the cover to clear the message on the LCD panel. Then reload the paper. The printer resumes printing from the page that jammed.

Note:

- ❏ *When using transparencies, load them in the MP tray and set the Paper Type setting to* Transparency *in the printer driver.*
- ❏ *When the Paper Type setting in the printer driver is set to* Transparency*, do not load any other type of paper except transparencies.*

Printing a Status Sheet

To confirm the current status of the printer, and that the options are installed correctly, print a status sheet using the printer's control panel or the printer driver.

To print a status sheet from the printer's control panel, see "Printing a Status Sheet" on page 267.

To print a status sheet from the printer driver, for Windows, see "Printing a status sheet" on page 95, or for Macintosh, see "Printing a status sheet" on page 167.

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Operational Problems

The Ready light does not turn on

Cause	What to do
The power cord may not be properly plugged into the electrical outlet.	Turn off the printer, check the power cord connections between the printer and the electrical outlet, then turn the printer back on.
The electrical outlet may be controlled by an outside switch or an automatic timer.	Make sure that the switch is turned on or plug another electrical device into the outlet to check whether the outlet is operating properly.

The printer does not print (Ready light off)

Cause	What to do
The printer is offline.	Press the ○ Start/Stop button once to switch the printer to ready status.
Some error may have occurred.	Check the LCD panel to see if an error message appears.

The Ready light is on but nothing prints

Cause	What to do
Your computer may not be properly connected to the printer.	Perform the procedure described in "Connecting the Printer to a Computer" in the *Setup Guide*.

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The interface cable may not be plugged in securely.	Check both ends of the interface cable between the printer and the computer. If you are using the parallel interface, be sure to secure the connector using the wire retaining clips.
You may not be using the correct interface cable.	If you are using the parallel interface, make sure that the cable is a double-shielded, twisted-pair interface cable no more than six feet in length. If you are using the USB interface, use a Revision 2.0 cable.
Your application software is not properly set up for your printer.	Make sure that the printer is selected in your application software.
Your computer system's memory is too small to handle the volume of data in your document.	Try reducing the image resolution of your document in the application software, or install more memory in your computer if you can.

The optional product is not available

Cause	What to do
For Windows users, EPSON Status Monitor is not installed. For Macintosh users, you do not re-register the printer.	**For Windows users:** You have to make settings manually in the printer driver. See "Making Optional Settings" on page 95. **For Macintosh users:** When you have attached or removed printer options, you need to delete the printer using Print Setup Utility (for Mac OS X 10.3), Print Center (for Mac OS X 10.2 or below), or Chooser (for Mac OS 9), and then re-register the printer.

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Printout Problems

The font cannot be printed

Cause	What to do
You may use the printer fonts substituted for specified TrueType fonts.	In the printer driver, choose the Print TrueType fonts as bitmap button in the Extended Settings dialog box.
The selected font is not supported by your printer.	Make sure that you have installed the correct font. See "Available Fonts" on page 446 for more information.

Printout is garbled

Cause	What to do
The interface cable may not be plugged in securely.	Make sure that both ends of the interface cable are plugged in securely.
You may not be using the correct interface cable.	If you are using the parallel interface, make sure that the cable is a double-shielded, twisted-pair interface cable no more than six feet in length. If you are using the USB interface, use a Revision 2.0 cable.
The emulation setting for the port may not be correct.	Specify the emulation mode by using the printer's control panel menus. See "Emulation Menu" on page 221.

Note:
If a status sheet does not print correctly, your printer may be damaged. Contact your dealer or a qualified service representative.

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The printout position is not correct

Cause	What to do
The page length and margins may be set incorrectly in your application.	Make sure that you are using the correct page length and margin settings in your application.
The Paper Size setting may be incorrect.	Make sure the correct paper size is set in the Tray Menu on the control panel.
MP Tray Size setting may be incorrect.	When loading paper for which the size is not specified with Auto setting, specify the correct paper size on the MP Tray Size setting in the Tray Menu on the control panel.

Misalignment of colors

Cause	What to do
The registration position of each color may have shifted while the printer was being shipped or moved to a new location.	Check the color registration and adjust the alignment if necessary. See "Checking Color Registration" on page 268 for instructions.

Graphics do not print correctly

Cause	What to do
The printer emulation setting in your application may be incorrect.	Make sure that your application is set for the printer emulation you are using. For example, if you are using the ESC/Page mode, make sure that your application is set to use an ESC/Page printer.

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You may need more memory.	Graphics require large amounts of memory. Install an appropriate memory module. See "Memory Module" on page 289.

Color Printing Problems

Cannot print in color

Cause	What to do
Black is selected as the Color setting in the printer driver.	Change this setting to Color.
The color setting in the application you are using is not appropriate for color printing.	Make sure that the settings in your application are appropriate for color printing.

The printout color differs when printed from different printers

Cause	What to do
Printer driver default settings and color tables vary by printer model.	Set the Gamma setting to 1.8 in the More Settings dialog box in the printer driver, then print again. If you still do not get the printouts you expect, adjust the color using the slide bar for each color. For details about the More Settings dialog box, see "Customizing print settings" on page 67 for Windows, or see "Customizing print settings" on page 151 for Macintosh.

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The color looks different from what you see on the computer screen

Cause	What to do
Printed colors do not exactly match the colors on your monitor, since printers and monitors use different color systems: monitors use RGB (red, green, and blue), while printers typically use CMYK (cyan, magenta, yellow, and black).	Although it is difficult to match colors perfectly, selecting the printer driver's ICM setting (for Windows XP, Me, 98, 2000, or Server 2003) or ColorSync setting (for Macintosh) can improve color matching between different devices. For details, see "Using the predefined settings" on page 64 for Windows, and "Using the predefined settings" on page 148 for Macintosh.
For Macintosh, the System Profile setting is not in use.	To apply ColorSync properly, your input device and the application must support ColorSync, and a System Profile must be used for your monitor.
PhotoEnhance may be selected in the printer driver.	The PhotoEnhance feature corrects the contrast and brightness of the original image data, and so may not be suitable for printing vivid images.

Print Quality Problems

Dots appear every 30 mm on the printout

Cause	What to do
The photoconductor unit needs to be cleaned.	Clean the photoconductor unit. See "Cleaning the photoconductor unit" on page 347 for details.

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The background is dark or dirty

Cause	What to do
You may not be using the correct type of paper for your printer.	If the surface of your paper is too rough, printed characters may appear distorted or broken. EPSON Color Laser Paper, or smooth, high-quality copier paper is recommended for best results. See "Available paper types" on page 410 for information on choosing paper.
The paper path inside the printer may be dusty.	Turn off the printer. Clean internal printer components by printing three pages with only one character per page.

White dots appear in the printout

Cause	What to do
The paper path inside the printer may be dusty.	Turn off the printer. Clean internal printer components by printing three pages with only one character per page.

Print quality or tone is uneven

Cause	What to do
Your paper may be moist or damp.	Do not store paper in a humid or damp environment.

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There may be no toner left in the toner cartridge.	If the message on the LCD panel or in EPSON Status Monitor indicates that the amount of toner left is low, see"Toner Cartridge" on page 312. You can also check the remaining toner with the following symbols on the Basic Settings tab in the printer driver. Toner low: ! Toner end: ×
There may be a problem with the photoconductor unit.	Replace the photoconductor unit. See "Photoconductor Unit" on page 318.

Half-tone images print unevenly

Cause	**What to do**
Your paper may be moist or damp.	Do not store paper in a humid or damp environment. Be sure to use paper that is newly unwrapped.
There may be no toner left in the toner cartridge.	If the message on the LCD panel or in EPSON Status Monitor indicates that the amount of toner is low, replace the toner cartridge. See "Toner Cartridge" on page 312. You can also check the remaining toner with the following symbols on the Basic Settings tab in the printer driver. Toner low: ! Toner end: ×
The gradation setting is too small when printing graphics.	On the Basic Setting menu in the printer driver, click More Settings, select the Enh.MG button, then select Smooth.
There may be a problem with the photoconductor unit.	Replace the photoconductor unit. See "Photoconductor Unit" on page 318.

Toner smudges

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Cause	What to do
Your paper may be moist or damp.	Do not store your paper in a humid or damp environment.
You may not be using the correct type of paper for your printer.	EPSON Color Laser Paper or smooth, high-quality copier paper is recommended for best results. See "Available paper types" on page 410 for information on choosing paper.
The paper path inside the printer may be dusty.	Turn off the printer. Clean internal printer components by printing three pages with only one character per page.
There may be a problem with the photoconductor unit.	Replace the photoconductor unit. See "Photoconductor Unit" on page 318.

Areas are missing in the printed image

Cause	What to do
Your paper may be moist or damp.	This printer is sensitive to moisture absorbed by the paper. The higher the moisture content in the paper, the lighter the printout. Do not store paper in a humid or damp environment.
You may not be using the correct type of paper for your printer.	If the surface of your paper is too rough, printed characters may appear distorted or broken. EPSON Color Laser Paper or smooth, high-quality copier paper is recommended for best results. See "Available paper types" on page 410 for information on choosing paper.

Completely blank pages are output

Cause	What to do

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The printer may have loaded more than one sheet at a time.	Remove the paper stack and fan it. Tap it on a flat surface to even the edges, then reload the paper.
There may be no toner left in the toner cartridge.	If the message on the LCD panel or in EPSON Status Monitor indicates that the amount of toner is low, replace the toner cartridge. See "Toner Cartridge" on page 312. You can also check the remaining toner with the following symbols on the Basic Settings tab in the printer driver. Toner low: ! Toner end: ×
The problem may be with your application or interface cable.	Print out a status sheet. See "Printing a Status Sheet" on page 267. If a blank page is ejected, the problem may be with the printer. Turn off the printer and contact your dealer.
The Paper Size setting may be incorrect.	Make sure the correct paper size is set in the Tray Menu on the control panel.
There may be a problem with the photoconductor unit.	Replace the photoconductor unit. See "Photoconductor Unit" on page 318.
MP Tray Size setting may be incorrect.	When loading paper for which the size is not specified with Auto setting, specify the correct paper size on the MP Tray Size setting in the Tray Menu on the control panel.
The protective tape may not be pulled out of the toner cartridge.	Make sure that the protective tape has been pulled out completely. See "Toner Cartridge" on page 312 for details.
Cover A, B, and D are not attached correctly.	Make sure that cover A, B, and D are closed securely. Remove the photoconductor unit, confirm that there is no paper remaining in the printer, then reinstall the photoconductor unit.

The printed image is light or faint

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Cause	What to do
Your paper may be moist or damp.	Do not store your paper in a humid or damp environment.
The Toner Save mode may be on.	Turn off the Toner Save mode using the printer driver or the printer's control panel menus. To modify the Toner Save mode using the printer driver, select the Advanced button in the Basic Setting menu, and click the More Settings. Deselect the Toner Save check box in the More Settings dialog box that appears.
There may be no toner left in the toner cartridge.	If the message on the LCD panel or in EPSON Status Monitor indicates that the amount of toner is low, replace the toner cartridge. See "Toner Cartridge" on page 312. You can also check the remaining toner with the following symbols on the Basic Settings tab in the printer driver. Toner low: ! Toner end: ×
There may be a problem with the photoconductor unit.	Replace the photoconductor unit. See "Photoconductor Unit" on page 318.

The non-printed side of the page is dirty

Cause	What to do
Toner may have spilled onto the paper feed path.	Clean internal printer components by printing three pages with only one character per page.

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Memory Problems

Print quality decreased

Cause	What to do
The printer cannot print in the required quality level because of insufficient memory, and the printer lowers the quality automatically so that the printer can continue printing.	Check to see if the printout is acceptable. If not, add more memory for a permanent solution or lower print quality temporarily in the printer driver.

Insufficient memory for current task

Cause	What to do
The printer has insufficient memory for current task.	Add more memory for a permanent solution or lower print quality temporarily in the printer driver.

Insufficient memory to print all copies

Cause	What to do
The printer does not have sufficient memory to collate print jobs.	Only one set of copies will be printed. Reduce the contents of print jobs, or add more memory. For information on installing more memory, see "Memory Module" on page 289.

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Paper Handling Problems

Paper does not feed properly

Cause	What to do
The paper guides are not set correctly.	Make sure that the paper guides in all the paper cassettes and the MP tray are set to the correct paper size positions.
The paper source setting may not be correct.	Make sure that you have selected the correct paper source in your application.
There may be no paper in the cassettes.	Load paper into the selected paper source.
The size of loaded paper differs from the control panel or printer driver settings.	Make sure that the correct paper size and paper source are set in the control panel or printer driver.
Too many sheets may be loaded in the MP tray or paper cassettes.	Make sure that you have not tried to load too many sheets of paper. For the maximum paper capacity for each paper source, see "MP tray" on page 41, "Standard lower paper cassette" on page 42, and "550-sheet/1100-sheet Paper Cassette Unit" on page 42.
If paper does not feed from the optional paper cassette unit, the unit may not be installed properly.	For instructions on installing the unit, see "Optional Paper Cassette Unit" on page 272.

Problems Using Options

To confirm your options are installed correctly, print a status sheet. See "Printing a Status Sheet" on page 267 for details.

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The message Invalid AUX /IF Card appears on the LCD panel

Cause	What to do
The printer cannot read the installed optional interface card.	Turn off the computer, then remove the card. Make sure the interface card is of a supported model.

Paper does not feed from the optional paper cassette

Cause	What to do
The paper guides are not set correctly.	Make sure that the paper guides in the optional paper cassettes are set to the correct paper size positions.
The optional paper cassette may not be installed properly.	See "Optional Paper Cassette Unit" on page 272 for instructions on installing an optional paper cassette unit.
The paper source setting may not be correct.	Make sure you have selected the proper paper source in your application.
There may be no paper in the paper cassette.	Load paper into the selected paper source.
Too many sheets may be loaded in the paper cassette.	Make sure that you have not tried to load too many sheets of paper. For the maximum paper capacity for each paper source, see "MP tray" on page 41, "Standard lower paper cassette" on page 42, and "550-sheet/1100-sheet Paper Cassette Unit" on page 42.
The paper size is not set correctly.	Make sure to set the paper guides in the optional paper cassette correctly.

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Feed jam when using the optional paper cassette

Cause	What to do
The paper is jammed at the optional paper cassette.	See "Clearing Jammed Paper" on page 355 to clear jammed paper.

An installed option cannot be used

Cause	What to do
The installed option is not defined in the printer driver.	**For Windows users:** You have to make settings manually in the printer driver. See "Making Optional Settings" on page 95. **For Macintosh users:** When you have attached or removed printer options, you need to delete the printer using Print Setup Utility (for Mac OS X 10.3), Print Center (for Mac OS X 10.2 or below), or Chooser (for Mac OS 9), and then re-register the printer.

Correcting USB Problems

If you are having difficulty using printer with a USB connection, see if your problem is listed below, and take any recommended actions.

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USB connections

USB cables or connections can sometimes be the source of USB problems. Try one or both of these solution.

- ❏ For best results, you should connect the printer directly to the computer's USB port. If you must use multiple USB hubs, we recommend that you connect the printer to the first-tier hub.

Windows operating system

Your computer must be a model pre-installed with Windows XP, Me, 98, 2000, or Server 2003, a model that was pre-installed with Windows 98 and upgraded to Windows Me, or a model that was pre-installed with Windows Me, 98, 2000, or Server 2003, and upgraded to Windows XP. You may not be able to install or run the USB printer driver on a computer that does not meet these specifications or that is not equipped with a built-in USB port.

For details about your computer, contact your dealer.

Printer software installation

Incorrect or incomplete software installation can lead to USB problems. Take note of the following and perform the recommended checks to ensure proper installation.

Checking printer software installation for Windows 2000, XP, or Server 2003

When using Windows XP, 2000, or Server 2003, you must follow the steps in the *Setup Guide* packed with the printer to install the printer software. Otherwise, Microsoft's Universal driver may be installed instead. To check if the Universal driver has been installed follow the steps below.

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1. Open the Printers folder, then right-click the icon of your printer.

2. Click Printing Preferences on the shortcut menu that appears, then right-click anywhere in the driver.

   If About is displayed in the shortcut menu that appears, click it. If a message box with the words "Unidrv Printer Driver" appears, you must reinstall the printer software as described in the *Setup Guide*. If About is not displayed, the printer software has been installed correctly.

Note:
For Windows 2000, if the Digital Signature Not Found dialog box appears during the installation process, click Yes. *If you click* No, *you will have to install the printer software again.*
For Windows XP or Server 2003, if the Software Installation dialog box appears during the installation process, click Continue Anyway. *If you click* STOP Installation, *you will have to install the printer software again.*

Checking printer software in Windows Me and 98

If you canceled the plug-and-play driver installation in Windows Me or 98 before the procedure was complete, the USB printer device driver or the printer software may be incorrectly installed. Follow the directions below to ensure that the driver and printer software are installed correctly.

Note:
The screen shots shown in this section are taken from Windows 98. Windows Me screens may differ slightly.

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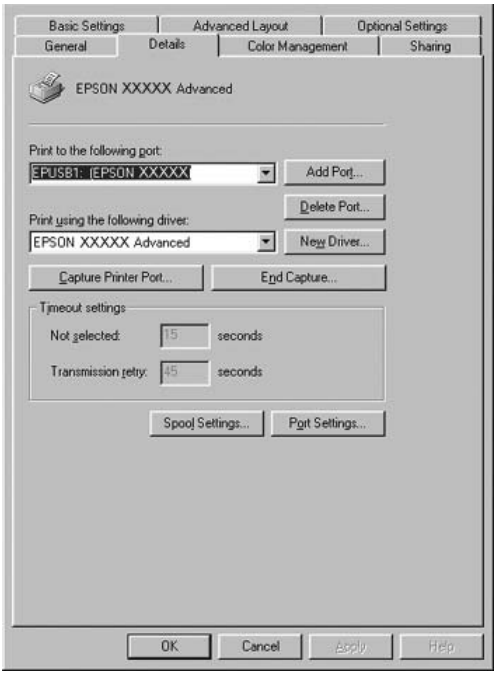
1. Access the printer driver, see "Accessing the printer driver" on page 61, then click the Details tab.



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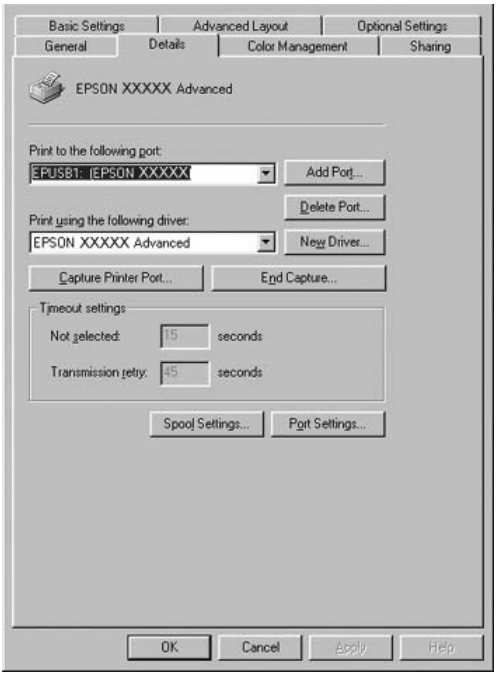
If EPUSBX: (your printer name) is displayed in the "Print to the following port" drop-down list, then the USB printer device driver and printer software are installed correctly. If the correct port is not displayed, proceed to the next step.



2. Right-click the My Computer icon on your desktop, then click Properties.

3. Click the Device Manager tab.

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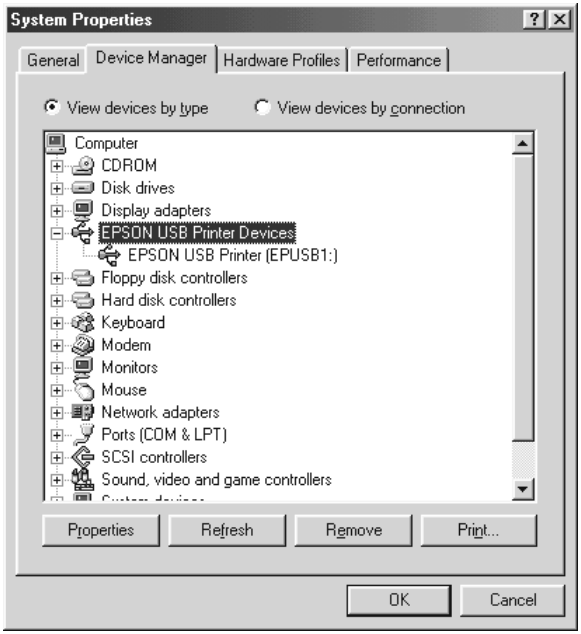
If your drivers are correctly installed, EPSON USB Printer Devices should appear on the Device Manager menu.



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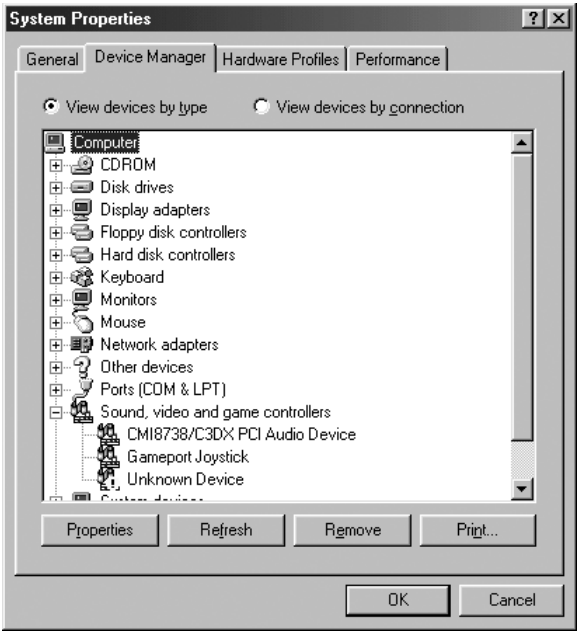
If EPSON USB Printer Devices does not appear on the Device Manager menu, click the plus(+) sign beside Other devices to view the installed devices.



If USB Printer or your printer name appears under Other devices, the printer software is not installed correctly. Proceed to step 5.

If neither USB Printer nor your printer name appears under Other devices, click Refresh or unplug the USB cable from the printer, then plug it into the printer again. Once you've confirmed that these items appear, proceed to step 5.

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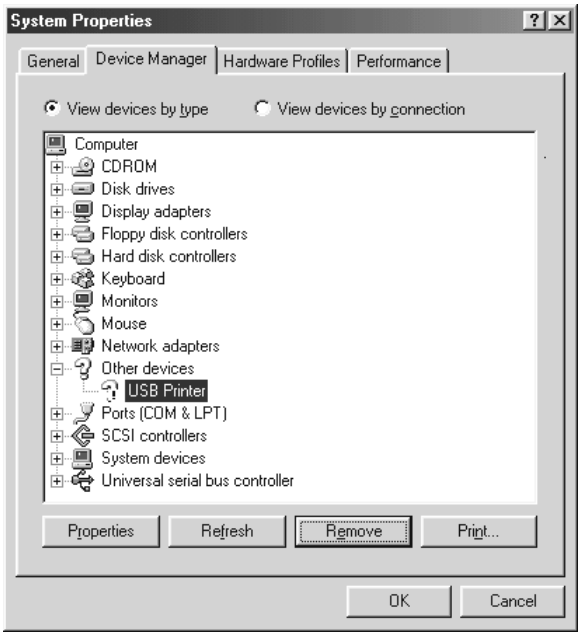
4. Under Other devices, select USB Printer or EPSON AL-CXXXX, click Remove, then click OK.



When the following dialog box appears, click OK, then click OK to close the System Properties dialog box.

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5. Uninstall the printer software as explained in "Uninstalling the Printer Software" on page 123. Turn the printer off, restart your computer, then reinstall the printer software as described in the *Setup Guide*.

Status and Error Messages

You can see the printer's status and error messages on the LCD panel. For more information, see "Status and Error Messages" on page 248. (TBD)

Canceling Printing

You can cancel printing from your computer by using the printer driver or from the printer's control panel.

To cancel a print job before it is sent from your computer, for Windows, see "Canceling Printing" on page 122 or for Macintosh, see "Canceling Printing" on page 186.

The Cancel Job button on your printer is the quickest and easiest way to cancel printing.

For instructions, see "Canceling Printing" on page 270.

Printing in the PostScript 3 Mode Problems

The problems listed in this section are those that you may encounter when printing with the PostScript driver. All procedural instructions refer to the PostScript printer driver.

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The printer does not print correctly in the PostScript mode

Cause	What to do
The printer's emulation mode setting is incorrect.	The printer is set to the Auto mode by default, so that it can automatically determine the encoding used in the received print job data and select the appropriate emulation mode. However, there are situations where the printer cannot select the correct emulation mode. In this case, it must be set manually to PS3. Set the emulation mode through the SelecType Emulation menu on the printer. See "Emulation Menu" on page 221.
The printer's emulation mode setting for the interface that you are using is incorrect.	The emulation mode can be set individually for each interface which receives print job data. Set the emulation mode for the interface you are using to PS3. Set the emulation mode through the SelecType Emulation menu on the printer. See "Emulation Menu" on page 221.

The printer does not print

Cause	What to do
The Print to file check box is selected in the Print dialog box (except on Mac OS X).	Clear the Print to file check box in the Print dialog box.
The Save as File check box is selected on the Output Option sheet in the Print dialog box (Mac OS X only).	Clear the Save as File check box on the Output Option sheet in the Print dialog box.

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An incorrect printer driver is selected.	Make sure that the PostScript printer driver that you are using to print is selected.
For Mac OS 9 users only The Unlimited Downloadable Fonts check box on the PostScript Options setup option page in the Page Setup dialog box is selected.	Clear the Unlimited Downloadable Fonts check box.
The Emulation menu in the printer's Control Panel is set to a mode other than `Auto` or `PS3` for the interface that you are using.	Change the mode setting to either `Auto` or `PS3`.

The printer driver or printer that you need to use does not appear in the Printer Setup Utility (Mac OS 10.3.x), Print Center (Mac OS 10.2.x), or Chooser (Mac OS 9)

Cause	What to do
QuickDraw GX is in use (Mac OS 9).	This printer's driver does not support QuickDraw GX. Disable QuickDraw GX.
The printer name has been changed.	Ask the network administrator for details, then select the appropriate printer name.
The AppleTalk zone setting is incorrect.	Open the Printer Setup Utility (Mac OS 10.3.x), Print Center (Mac OS 10.2.x), or Chooser (Mac OS 9), then select the AppleTalk zone that the printer is connected to.

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The font on the printout is different from that on the screen

Cause	What to do
The PostScript screen fonts are not installed.	The PostScript screen fonts must be installed on the computer that you are using. Otherwise, the font that you select is substituted by some other font for display on the screen.
For Windows users only The Send TrueType fonts to printer according to the font Substitution Table setting on the Fonts sheet of the printer's Properties dialog box is turned on, but the TrueType fonts are not replaced by the printer fonts. (For Windows Me or 98) The appropriate substitution fonts are not correctly specified on the Device Settings sheet of the printer's Properties dialog box. (For Windows XP or 2000)	If the Send TrueType fonts to printer according to the font Substitution Table setting on the Fonts sheet of the printer's Properties dialog box is turned on, TrueType fonts are replaced by the printer fonts before they are printed. Specify the appropriate substitution fonts using the Font Substitution Table. Specify the appropriate substitution fonts using the Font Substitution Table.

The printer fonts cannot be installed

Cause	What to do
The Emulation menu in the printer's Control Panel is not set to PS3 for the interface that you are using.	Change the Emulation menu setting to PS3 for the interface that you are using, then try reinstalling the printer fonts again.

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The edges of texts and/or images are not smooth

Cause	What to do
The Print Quality is set to Fast.	Change the Print Quality setting toQuality or Super.
The printer does not have sufficient memory.	Increase the printer memory.

The printer does not print normally via the parallel interface (Windows 98 only)

Cause	What to do
The computer is connected to the printer via the parallel interface and the parallel port setting is set to the ECP mode.	Make sure that the mode setting is correct.

The printer does not print normally via the USB interface

Cause	What to do
For Windows users only The Data Format setting in the printer's Properties is not set to ASCII or TBCP.	The printer cannot print binary data when it is connected to the computer via the USB interface. Make sure that the Data Format setting, which is accessed by clicking Advanced on the PostScript sheet of the printer's Properties, is set to ASCII or TBCP. If your computer is running Windows XP, click the Device Settings tab in the printer's Properties, then click the Output Protocol setting and select ASCII or TBCP.

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For Macintosh users only The Data Format setting in the printer's Properties is not set to ASCII.	The printer cannot print binary data when it is connected to the computer via the USB interface. Make sure that the Data Format setting, which is accessed by clicking Print from the File menu, is set to ASCII.

The printer does not print normally via the network interface

Cause	What to do
The Data Format setting is different from the data format setting specified in the application (except on Mac OS X)	If the file is created in an application that allows you to change the data format or encoding, such as Photoshop, make sure that the setting in the application matches that in the printer driver.
For Windows 2000 users only Job Management On is selected in the printer's Properties.	When AppleTalk is active and Job Management ON is selected, the printer does not print normally. Make sure to clear the Job Management On check box on the Job Settings sheet of the printer's Properties.
For Windows users only The computer is connected to the network using AppleTalk in a Windows 2000 environment, and the Send CTRL+D Before Each Job or Send CTRL+D After Each Job setting on the Device Settings sheet of the printer's Properties dialog box is set to Yes.	Make sure that both the Send CTRL+D Before Each Job and Send CTRL+D After Each Job settings are set to No.
For Windows users only The print data is too large.	Click Advanced on the PostScript sheet of the printer's Properties, then change the Data Format setting from ASCII data (default) to TBCP (Tagged binary communications protocol). When the `Binary` setting is set to `On`, TBCP is not available. Use the Binary protocol. See "PS3 Menu" on page 238 for details.

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For Windows users only Printing cannot be performed using the network interface.	Click Advanced on the PostScript sheet of the printer's Properties, then change the Data Format setting from ASCII data (default) to TBCP (Tagged binary communications protocol). When the `Binary` setting is set to `On`, TBCP is not available. Use the Binary protocol. See "PS3 Menu" on page 238 for details.

An undefined error occurs (Macintosh only)

Cause	What to do
The version of the Mac OS that you are using is unsupported.	This printer's driver can only be used on Macintosh computers running Mac OS 9 version 9.1 or later, and Mac OS X version 10.2.x or later.

Insufficient memory to print data (Macintosh only)

Cause	What to do

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The Macintosh printer driver uses available memory in the system to process print data.	Try one of the following to free up memory for printing: ❏ Reduce the RAM cache setting in the Memory control panel (Mac OS 9). ❏ Close applications that are not in use. ❏ Increase the memory allocation for the application that you are printing from (Mac OS 9). ❏ Turn off background printing.

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Appendix A

Customer Support

Contacting Customer Support

If your Epson product is not operating properly and you cannot solve the problem using the troubleshooting information in your product documentation, contact customer support services for assistance. Check your Pan-European Warranty Document for information on how to contact EPSON Customer support. They will be able to help you much more quickly if you give them the following information:

- ❏ Product serial number
  (The serial number label is usually on the back of the product.)
- ❏ Product model
- ❏ Product software version
  (Click About, Version Info, or similar button in the product software.)
- ❏ Brand and model of your computer
- ❏ Your computer operating system name and version
- ❏ Names and versions of the software applications you normally use with your product

Technical Support Web Site

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Go to http://www.epson.com and select the Support section of your local EPSON web site for the latest drivers, FAQs, manuals and other downloadables.

Epson's Technical Support Web Site provides help with problems that cannot be solved using the troubleshooting information in your printer documentation.

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Appendix B

Technical Specifications

Paper

Since the quality of any particular brand or type of paper may be changed by the manufacturer at any time, Epson cannot guarantee the quality of any type of paper. Always test samples of paper stock before purchasing large quantities or printing large jobs.

Available paper types

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Paper type	Description
Plain paper	Weight: 60 to 105 g/m² (Recycled paper is acceptable.*1)
Envelopes	No paste and no tape. No plastic window. (unless specifically designed for laser printers.)
Labels	The backing sheet should be covered completely, with no gaps between labels.
Thick paper	Weight: 106 to 163 g/m²
Extra thick paper	Weight: 164 to 216 g/m²*2
Semi-Thick/EPSON Color Laser Paper	Weight: 82 g/m²
EPSON Color Laser Transparencies	Weight: 140 g/m²
Colored paper	Non coated
Paper with letterhead	Paper and ink of letterheads must be compatible with laser printers.

*1 Use recycled paper only under normal temperature and humidity conditions. Poor quality paper may reduce print quality, or cause paper jams and other problems.

*2 When using extra thick paper, set the Paper Type setting in the printer driver to Extra Thick.

Paper that should not be used

You cannot use the following paper in this printer. It may cause printer damage, paper jams, and poor print quality:

- ❏ Media meant for other color laser printers, black-and-white laser printers, color copiers, black-and-white copiers, or ink jet printers
- ❏ Previously printed paper by any other color laser printers, black-and-white laser printers, color copiers, black-and-white copiers, ink jet printers, or thermal transfer printers

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- ❏ Carbon paper, carbonless paper, thermal-sensitive paper, pressure-sensitive paper, acid paper, or paper that uses high-temperature-sensitive ink (around 190 °C)
- ❏ Labels that peel easily or labels that do not cover the backing sheet completely
- ❏ Coated paper or special surface-colored paper
- ❏ Paper that has binder holes or is perforated
- ❏ Paper that has glue, staples, paper clips, or tape on it
- ❏ Paper that attracts static electricity
- ❏ Moist or damp paper
- ❏ Paper of uneven thickness
- ❏ Overly thick or thin paper
- ❏ Paper that is too smooth or too rough
- ❏ Paper that is different on the front and back
- ❏ Paper that is folded, curled, wavy, or torn
- ❏ Paper of irregular shape, or paper that does not have right angle corners

Printable area

5-mm minimum margin on all sides. (The printable width should be 207.9 mm or less.)

Note:

- ❏ *The printable area varies, depending on the emulation mode in use.*

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- ❏ *When using ESC/Page language, there is 5-mm minimum margin on all sides.*
- ❏ *The print quality may be irregular depending on the paper you use. Print on one or two sheets of paper to check the print quality.*

Printer

General

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Printing method:	Laser beam scanning and dry electrophotographic process	
Resolution:	4800 RIT*1	
Continuous printing speed*2:	A maximum of 35 pages per minute black and white printing on A4 size paper A maximum of 25 pages per minute color printing on A4 size paper	
Paper feed:	Automatic or manual feed	
Paper feed alignment:	Center alignment for all sizes	
Input paper supply:		
MP tray:	Up to 150 sheets of plain paper (60~105 g/m²) Up to a 15 mm thick stack of envelopes Up to a 15 mm thick stack of transparencies Up to a 15 mm thick stack of labels	
Standard lower paper cassette:	Up to 550 sheets of plain paper (60~105 g/m²)	
Paper output:	For all paper types and size	
Paper output capacity:	Up to 250 sheets of plain paper (60~105 g/m²)	
Duplex:	Paper Type:	Paper Size:
	Plain paper	A4, B5, A5, Letter (LT), Executive (EXE), Government Legal (GLG), Legal (LGL)
	EPSON Color Laser Paper	A4

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Printer language:	ECP/Page printer language
	ESC/P 2 24-pin printer emulation (ESC/P 2 mode)
	ESC/P 9-pin printer emulation (FX mode)
	IBM Proprinter emulation (I239X mode)
	Adobe PostScript3
Resident fonts:	84 scalable fonts, and 7 bitmap fonts
RAM:	128 MB, expandable up to 640 MB

*1 Epson AcuLaser Resolution Improvement Technology

*2 Printing speed varies by paper source or other conditions.

Environmental

Temperature:	In use:	5 to 32°C (41 to 90°F)
	Not in use:	-20 to 40°C (-40 to 104°F)
Humidity:	In use:	15 to 85% RH
	Not in use:	5 to 85% RH
Altitude:	3,100 meters (10,170 feet) maximum	

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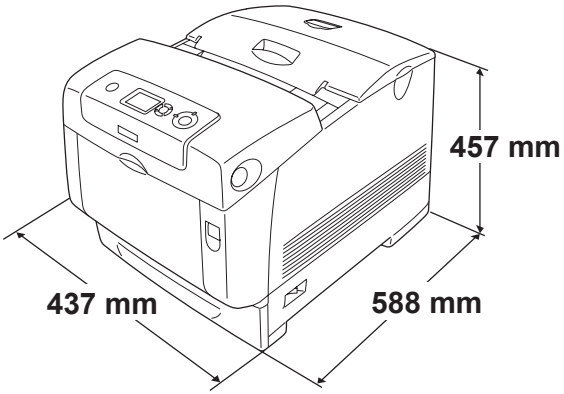
Mechanical



Weight:	Approx. 34.6 kg (about76.3 lb), excluding the consumables and options
Durability	5 years or 600,000 pages, whichever comes first (under the condition of A4 size, horizontal plain paper)

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Electrical

			120 V Model KDAS-1a	220-240 V Model KDBS-1a
Voltage			120 V ± 10%	220 V-240 V ± 10%
Rated frequency			50 Hz / 60 Hz ± 3 Hz	50 Hz / 60 Hz ± 3 Hz
Rated current			Less than 10 A	Less than 5 A
Power consumption	During printing	Average (Color printing)	357 W	329 W
		Average (Black and white printing)	437 W	409 W
		MAX	900 W	960 W
	During standby mode		70 W	71 W
	Sleep mode*		Up to 21 W	Up to 25 W

* Completely suspended. Compliant with the Energy Star program.

Standard and approvals

U.S. model:

Safety	UL 60950 CSA No.60950
EMC	FCC Part 15 Subpart B Class B CSA C108.8 Class B

European model:

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Low Voltage Directive	EN 60950
73/23/EEC EMC	EN 55022 Class B
Directive 89/336/EEC	EN 55024
	EN 61000-3-2
	EN 61000-3-3

Australian model:

EMC	AS/NZS CISPR22 Class B

Laser safety

This printer is certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. This means that the printer does not produce hazardous laser radiation.

Since radiation emitted by the laser is completely confined within protective housings and external covers, the laser beam cannot escape from the machine during any phase of user operation.

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CDRH regulations

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. Compliance is mandatory for products marketed in the United States. The label shown below indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

This laser product conforms to the applicable requirement of 21 CFR
Chapter I, subchapter J.

SEIKO EPSON CORP.
Hirooka Office
80 Hirooka, Shiojiri-shi, Nagano-ken,
Japan

Interfaces

Parallel interface

Use the IEEE 1284-I compliant parallel interface connector.

ECP mode/Nibble mode

USB interface

USB 2.0 High Speed mode

Note:

❏ *Only computers equipped with a USB connector and running Mac OS 9.x or X and Windows XP, Me, 98, 2000, or Server 2003 support the USB interface.*

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- ❏ *Your computer must support USB 2.0 in order to use USB 2.0 as the interface to connect your computer to the printer.*
- ❏ *Since USB 2.0 is fully compatible with USB 1.1, USB 1.1 can be used as an interface.*
- ❏ *USB 2.0 can be used with Windows XP, 2000, and Server 2003 operating systems. If your operating system is Windows Me or 98, use a USB 1.1 interface.*

Ethernet interface

You can use an IEEE 802.3 100BASE-TX/10 BASE-T straight-through shielded, twisted-pair interface cable with an RJ45 connector.

Note:
Ethernet Interface may not be available depending on the printer model.

Options and Consumable Products

Optional paper cassette unit

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Product code:	C12C802251 (for 550 sheets) C12C802261 (for 1100 sheets)
Paper size:	A4, A5, B5, Letter (LT), Executive (EXE), Legal (LGL), Government Legal (GLG)
Paper weight:	60 to 105 g/m² (14 to 23 lb)
Paper feed:	Three paper cassettes mounted Automatic feed delivery system Cassette capacity up to 550 sheets (for each of cassettes)
Paper types:	Plain paper/Semi-Thick
Power supply:	DC 24V / 0.7 A and DC 3.3 V / 0.1 A supplied by the printer (for 550 sheets) DC 24V / 1.0 A and DC 3.3 V / 0.2 A supplied by the printer (for 1100 sheets)
Model:	KDA-2* (for 550 sheets) KDA-3* (for 1100 sheets)
Dimensions and weight:	
550-sheet Paper Cassette Unit:	
Height:	154 mm (6.1 in.)
Width:	429 mm (16.9 in.)
Depth:	509 mm (20.0 in.)
Weight:	7 kg (15.4 lb) including all cassettes
1100-sheet Paper Cassette Unit:	
Height:	364 mm (14.3 in.)
Width:	584 mm (23.0 in.)
Depth:	695 mm (27.4 in.)
Weight:	21 kg (46.3 lb) including all cassettes

* This product conforms to CE marking requirements in accordance with EC Directive 89/336/EEC.

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Memory modules

Product code:	C12C832661*1
DRAM type:	DDR333 SDRAM (PC2700), 200Pin S.O.DIMM*2
Memory size:	128 MB, 256 MB, 384 MB, 512 MB, 640 MB

*1 This product conforms to CE marking requirements in accordance with EC Directive 89/336/EEC.

*2 Only DIMMs produced specifically for EPSON products are compatible.

Hard Disk Drive

Product code:	C12C824172*
Capacity:	40 GB

* This product conforms to CE marking requirements in accordance with EC Directive 89/336/EEC.

Toner cartridge

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Product code:	Yellow:	0242
	Magenta:	0243
	Cyan:	0244
	Black:	0245
Storage temperature:	-20to 40°C (-4 to 104°F)	
Storage humidity:	5 to 85% RH	
Model:	Yellow:	0242*
	Magenta:	0243*
	Cyan:	0244*
	Black:	0245*

* This product conforms to CE marking requirements in accordance with EC Directive 89/336/EEC.

Photoconductor unit

Product code:	1109
Storage temperature:	-20 to 40°C (-4 to 104°F)
Storage humidity:	5 to 85% RH
Model:	1109*

* This product conforms to CE marking requirements in accordance with EC Directive 89/336/EEC.

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Fuser unit

Product code:	3020/3021*
Storage temperature:	-20 to 40°C (-4 to 104°F)
Storage humidity:	5 to 85% RH

* This product conforms to CE marking requirements in accordance with EC Directive 89/336/EEC.

Transfer unit

Product code:	3022*
Storage temperature:	-20 to 40°C (-4 to 104°F)
Storage humidity:	5 to 85% RH

* This product conforms to CE marking requirements in accordance with EC Directive 89/336/EEC.

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Appendix C

Information about Fonts

Working with Fonts

EPSON BarCode Fonts (Windows Only)

EPSON BarCode Fonts let you easily create and print many types of bar codes.

Normally, bar code creation is a laborious process requiring you to specify various command codes, such as Start bar, Stop bar and OCR-B, in addition to the bar code characters themselves. However, EPSON BarCode Fonts are designed to add such codes automatically, allowing you to easily print bar codes that conform to a variety of bar code standards.

EPSON BarCode Fonts support the following types of bar codes.

Bar code Standard	EPSON BarCode	OCR-B	Check Digit	Comments
EAN	EPSON EAN-8	Yes	Yes	Creates EAN (abbreviated version) bar codes.
	EPSON EAN-13	Yes	Yes	Creates EAN (standard version) bar codes.
UPC-A	EPSON UPC-A	Yes	Yes	Creates UPC-A bar codes.
UPC-E	EPSON UPC-E	Yes	Yes	Creates UPC-E bar codes.

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Code39	EPSON Code39	No	No	Printing of OCR-B and check digits can be specified with the font name.
	EPSON Code39 CD	No	Yes	
	EPSON Code39 CD Num	Yes	Yes	
	EPSON Code39 Num	Yes	No	
Code128	EPSON Code128	No	Yes	Creates Code128 bar codes.
Interleaved 2 of 5 (ITF)	EPSON ITF	No	No	Printing of OCR-B and check digits can be specified with the font name.
	EPSON ITF CD	No	Yes	
	EPSON ITF CD Num	Yes	Yes	
	EPSON ITF Num	Yes	No	
Codabar	EPSON Codabar	No	No	Printing of OCR-B and check digits can be specified with the font name.
	EPSON Codabar CD	No	Yes	
	EPSON Codabar CD Num	Yes	Yes	
	EPSON Codabar Num	Yes	No	

System requirements

To use EPSON BarCode Fonts, your computer system should meet the following requirements:

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Computer:	IBM PC series or IBM compatible with an i386SX or higher CPU
Operating system:	Microsoft Windows XP, Me, 98, 2000, or Server 2003
Hard disk:	15 to 30 KB free space, depending on the font.

Note:
EPSON BarCode Fonts can only be used with Epson printer drivers.

Installing EPSON BarCode Fonts

Follow the steps below to install EPSON BarCode Fonts. The procedure described here is for installation in Windows 98; the procedure for other Windows operating systems is nearly the same.

1. Make sure that the printer is off and that Windows is running on your computer.

2. Insert the printer software CD-ROM in the CD-ROM drive.

   Note:
   - ❏ *If the language section window appears, select your country.*

   - ❏ *If the EPSON Installation Program screen does not appear automatically, double-click the My Computer icon, right-click the CD-ROM icon, and click* OPEN *in the menu that appears. Then double-click* Epsetup.exe.

3. Click Continue. When the software license agreement screen appears, read the statement and then click Agree.

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4. In the dialog box that appears, click Local.

5. Click Custom.

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6. Select the EPSON BarCode Font check box and then click Install. Then follow the on-screen instructions.

7. When installation is complete, click OK.

EPSON BarCode Fonts are now installed on your computer.

Printing with EPSON BarCode Fonts

Follow the steps below to create and print bar codes using EPSON BarCode Fonts. The application featured in these instructions is Microsoft WordPad. The actual procedure may differ slightly when printing from other applications.

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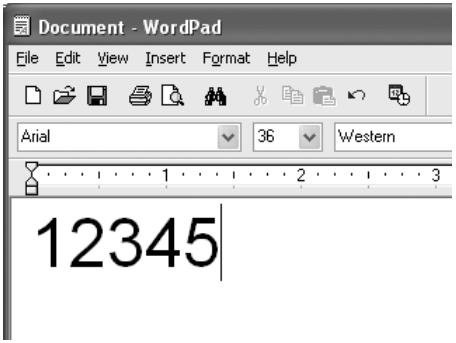
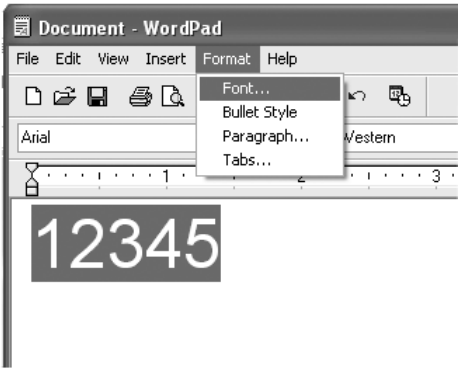
1. Open a document in your application and enter the characters you want to convert into a bar code.



2. Select the characters, then select Font from the Format menu.



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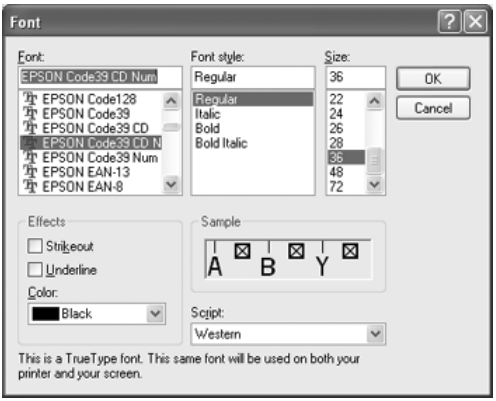
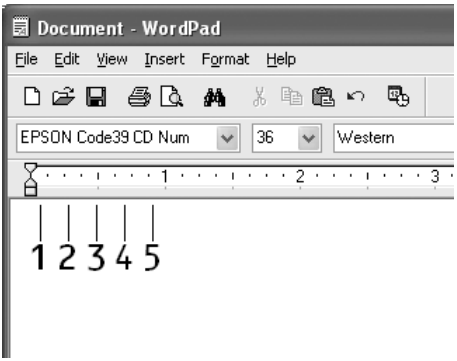
3. Select the EPSON BarCode Font you want to use, set the font size, then click OK.



Note:
In Windows XP, 2000, or Server 2003, you cannot use font sizes larger than 96 points when printing bar codes.

4. The characters you selected appear as bar code characters similar to those shown below.



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5. Select Print from the File menu, select your EPSON printer, then click Properties. Make the following printer driver settings. Your printer is a Color printer. See the Color Printer Driver section in the table below.

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	Monochrome Printer Driver	Color Printer Driver	Host Based Monochrome Printer Driver	Host Based Color Printer Driver
Color	(not available)	Black	(not available)	Black
Print Quality	Text & Image*	Text*	Text & Image*	Text*
Toner Save	Not selected	Not selected	Not selected	Not selected
Zoom Options	Not selected	Not selected	Not selected	Not selected
Graphic mode (in the Extended Settings dialog box accessed through the Optional Settings tab)	High Quality (Printer)	(not available)	(not available)	(not available)
Printing Mode (in the Extended Settings dialog box accessed through the Optional Settings tab)	(not available)	High Quality (Printer)	(not available)	(not available)

* These settings are available when the Automatic check box is selected on the Basic Settings tab. When the Advanced check box is selected, click the More Settings button and set the Resolution to 600dpi.

6. Click OK to print the bar code.

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Note:
If there is an error in the bar code character string, such as inappropriate data, the bar code will be printed as it appears on the screen, but it cannot be read by a bar code reader.

Notes on inputting and formatting bar codes

Please note the following when inputting and formatting bar code characters:

- ❏ Do not apply shading or special character formatting, such as bold, italic, or underline.
- ❏ Print bar codes in black and white only.
- ❏ When rotating characters, only specify rotation angles of 90°, 180°, and 270°.
- ❏ Turn off all automatic character and word spacing settings in your application.
- ❏ Do not use features in your application that enlarge or reduce the size of characters in only the vertical or horizontal direction.
- ❏ Turn off your application's auto-correct features for spelling, grammar, spacing, etc.
- ❏ To more easily distinguish bar codes from other text in your document, set your application to show text symbols, such as paragraph marks, tabs, etc.
- ❏ Because special characters such as Start bar and Stop bar are added when an EPSON BarCode Font is selected, the resulting bar code may have more characters than were originally input.

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❏ For best results, use only the font sizes recommended in "BarCode Font specifications" on page 435 for the EPSON BarCode Font you are using. Bar codes in other sizes may not be readable with all bar code readers.

Note:
Depending on the print density, or on the quality or color of the paper, bar codes may not be readable with all bar code readers. Print a sample and make sure the bar code can be read before printing large quantities.

BarCode Font specifications

This section contains details on the character input specifications for each EPSON BarCode Font.

EPSON EAN-8

❏ EAN-8 is an eight-digit abbreviated version of the EAN bar code standard.

❏ Because the check digit is added automatically, only 7 characters can be input.

Character type	Numbers (0 to 9)
Number of characters	7 characters
Font size	52 pt to 130 pt (up to 96 pt in Windows XP/2000/Server 2003). Recommended sizes are 52 pt, 65 pt (standard), 97.5 pt, and 130 pt.

The following codes are inserted automatically and need not be input by hand:

❏ Left/Right margin

❏ Left/Right guard bar

❏ Center bar

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❏ Check digit

❏ OCR-B

Print sample

EPSON EAN-8

EPSON EAN-13

❏ EAN-13 is the standard 13-digit EAN bar code.

❏ Because the check digit is added automatically, only 12 characters can be input.

Character type	Numbers (0 to 9)
Number of characters	12 characters
Font size	60 pt to 150 pt (up to 96 pt in Windows XP/2000/Server 2003). Recommended sizes are 60 pt, 75 pt (standard), 112.5 pt, and 150 pt.

The following codes are inserted automatically and need not be input by hand:

❏ Left/Right margin

❏ Left/Right guard bar

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❏ Center bar

❏ Check digit

❏ OCR-B

Print sample

EPSON EAN-13

EPSON UPC-A

❏ UPC-A is the standard bar code specified by the American Universal Product Code (UPC Symbol Specification Manual).

❏ Only regular UPC codes are supported. Supplementary codes are not supported.

Character type	Numbers (0 to 9)
Number of characters	11 characters
Font size	60 pt to 150 pt (up to 96 pt in Windows XP/2000/Server 2003). Recommended sizes are 60 pt, 75 pt (standard), 112.5 pt and 150 pt.

The following codes are inserted automatically and need not be input by hand:

❏ Left/Right margin

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❏ Left/Right guard bar

❏ Center bar

❏ Check digit

❏ OCR-B

Print sample

EPSON UPC-A

EPSON UPC-E

❏ UPC-E is the UPC-A zero-suppression (deletes extra zeros) bar code specified by the American Universal Product Code (UPC Symbol Specification Manual).

Character type	Numbers (0 to 9)
Number of characters	6 characters
Font size	60 pt to 150 pt (up to 96 pt in Windows XP/2000/Server 2003). Recommended sizes are 60 pt, 75 pt (standard), 112.5 pt, and 150 pt.

The following codes are inserted automatically and need not be input by hand:

❏ Left/Right margin

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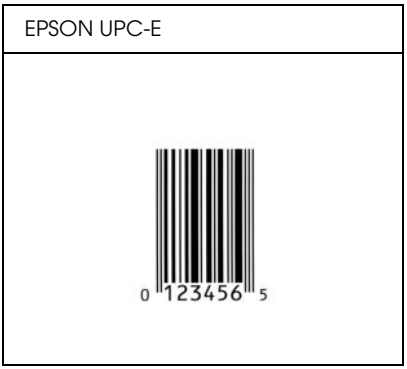
- ❏ Left/Right guard bar
- ❏ Check digit
- ❏ OCR-B
- ❏ The numeral “0”

Print sample



EPSON Code39

- ❏ Four Code39 fonts are available, allowing you to enable and disable the automatic insertion of check digits and OCR-B.
- ❏ The height of the bar code is automatically adjusted to 15% or more of its total length, in conformance to the Code39 standard. For this reason, it is important to keep at least one space between the bar code and the surrounding text to prevent overlapping.
- ❏ Spaces in Code39 bar codes should be input as “_” underbars.
- ❏ When printing two or more bar codes on one line, separate the bar codes with a tab, or select a font other than a BarCode Font and input the space. If a space is input while a Code39 font is selected, the bar code will not be correct.

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Character type	Alphanumeric characters (A to Z, 0 to 9) Symbols (- . space $ / + %)
Number of characters	No limit
Font size	When OCR-B is not used: 26 pt or more (up to 96 pt in Windows XP/2000/Server 2003). Recommended sizes are 26 pt, 52 pt, 78 pt, and 104 pt. When OCR-B is used: 36 pt or more (up to 96 pt in Windows XP/2000/Server 2003). Recommended sizes are 36 pt, 72 pt, 108 pt, and 144 pt.

The following codes are inserted automatically and need not be input by hand:

- ❏ Left/Right quiet zone
- ❏ Check digit
- ❏ Start/Stop character

Print sample

EPSON Code39	EPSON Code39 CD
EPSON Code39 Num	EPSON Code39 CD Num

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- ❏ Code128 fonts support code sets A, B, and C. When the code set of a line of characters is changed in the middle of the line, a conversion code is automatically inserted.

- ❏ The height of the bar code is automatically adjusted to 15% or more of its total length, in conformance to the Code128 standard. For this reason, it is important to keep at least one space between the bar code and the surrounding text to prevent overlapping.

- ❏ Some applications automatically delete the spaces at the end of lines or change multiple spaces into tabs. Bar codes containing spaces may not be correctly printed from applications that automatically delete spaces from the ends of lines or change multiple spaces into tabs.

- ❏ When printing two or more bar codes on one line, separate the bar codes with a tab, or select a font other than a BarCode Font and input the space. If a space is input while Code128 is selected, the bar code will not be correct.

Character type	All ASCII characters (95 in total)
Number of characters	No limit
Font size	26 pt to 104 pt (up to 96 pt in Windows XP/2000/Server 2003). Recommended sizes are 26 pt, 52 pt, 78 pt, and 104 pt.

The following codes are inserted automatically and need not be input by hand:

- ❏ Left/Right quiet zone

- ❏ Start/Stop character

- ❏ Check digit

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❏ Change code set character

Print sample

EPSON Code128

EPSON ITF

❏ The EPSON ITF fonts conform to the USS Interleaved 2-of-5 standard (American).

❏ Four EPSON ITF fonts are available, allowing you to enable and disable the automatic insertion of check digits and OCR-B.

❏ The height of the bar code is automatically adjusted to 15% or more of its total length, in conformance to the Interleaved 2-of-5 standard. For this reason, it is important to keep at least one space between the bar code and the surrounding text to prevent overlapping.

❏ Interleaved 2 of 5 treats every two characters as one set. When there are an odd number of characters, EPSON ITF fonts automatically add a zero to the beginning of the character string.

Character type	Numbers (0 to 9)
Number of characters	No limit

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Font size	When OCR-B is not used: 26 pt or more (up to 96 pt in Windows XP/2000/Server 2003). Recommended sizes are 26 pt, 52 pt, 78 pt, and 104 pt. When OCR-B is used: 36 pt or more (up to 96 pt in Windows XP/2000/Server 2003). Recommended sizes are 36 pt, 72 pt, 108 pt, and 144 pt.

The following codes are inserted automatically and need not be input by hand:

- ❏ Left/Right quiet zone
- ❏ Start/Stop character
- ❏ Check digit
- ❏ The numeral "0" (added to the beginning of character strings as needed)

Print sample

EPSON ITF	EPSON ITF CD
EPSON ITF Num	EPSON ITF CD Num

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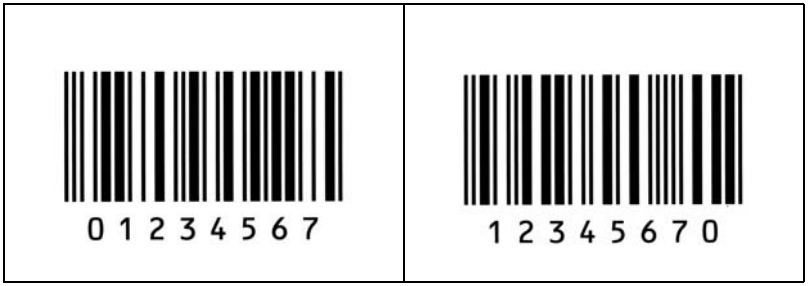

EPSON Codabar

- ❏ Four Codabar fonts are available, allowing you to enable and disable the automatic insertion of check digits and OCR-B.
- ❏ The height of the bar code is automatically adjusted to 15% or more of its total length, in conformance to the Codabar standard. For this reason, it is important to keep at least one space between the bar code and the surrounding text to prevent overlapping.
- ❏ When either a Start or a Stop character is input, Codabar fonts automatically insert the complementary character.
- ❏ If neither a Start nor a Stop character is input, these characters are automatically input as the letter *"A"*.

Character type	Numbers (0 to 9) Symbols (- $: / . +)
Number of characters	No limit

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Font size	When OCR-B is not used: 26 pt or more (up to 96 pt in Windows XP/2000/Server 2003). Recommended sizes are 26 pt, 52 pt, 78 pt, and 104 pt. When OCR-B is used: 36 pt or more (up to 96 pt in Windows XP/2000/Server 2003). Recommended sizes are 36 pt, 72 pt, 108 pt, and 144 pt.

The following codes are inserted automatically and need not be input by hand:

- ❏ Left/Right quiet zone
- ❏ Start/Stop character (when not input)
- ❏ Check digit

Print sample

EPSON Codabar	EPSON Codabar CD
EPSON Codabar Num	EPSON Codabar CD Num

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Available Fonts

The following table lists the fonts that are installed in your printer. The names of all the fonts appear in your application software's font list if you are using the driver provided with the printer. If you are using a different driver, all of these fonts may not be available.

The fonts provided with the printer are shown below, according to the emulation mode.

ESC/P 2 and FX modes

Font Name	Family
Courier	Medium, Bold
EPSON Prestige	-
EPSON Roman	-
EPSON Sans serif	-
Arial	Medium, Bold
Letter Gothic	Medium, Bold
Times New Roman	Medium, Bold
EPSON Script	-
OCR A	-
OCR B	-

* Available only in ESC/P2 mode.

Note:
Depending on the print density, or on the quality or color of the paper, OCR A and OCR B fonts may not be readable. Print a sample and make sure the fonts can be read before printing large quantities.

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I239X mode

Font Name	Family
Courier	Medium, Bold
EPSON Prestige	-
EPSON Gothic	-
EPSON Orator	-
EPSON Script	-
EPSON Presentor	-
EPSON Sans serif	-
OCR B	-

Note:
Depending on the print density, or on the quality or color of the paper, the OCR B font may not be readable. Print a sample and make sure the font can be read before printing large quantities.

PS 3 mode

Seventeen scalable fonts. The fonts include: Courier, Courier Oblique, Courier Bold, Courier Bold Oblique, Helvetica, Helvetica Oblique, Helvetica Bold, Helvetica Bold Oblique, Helvetica Narrow, Helvetica Narrow Oblique, Helvetica Narrow Bold, Helvetica Narrow Bold Oblique, Times Roman, Times Italic, Times Bold, Times Bold Italic, and Symbol.

P5C mode

For symbol set, see "In the P5C Mode" on page 462.

Scalable Font

Font Name	Symbol Set

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Courier	*1
Courier Bold	*1
Courier Italic	*1
Courier Bold Italic	*1
Letter Gothic	*1
Letter Gothic Bold	*1
Letter Gothic Italic	*1
CourierPS	*3
CourierPS Bold	*3
CourierPS Oblique	*3
CourierPS Bold Oblique	*3
CG Times	*2
CG Times Bold	*2
CG Times Italic	*2
CG Times Bold Italic	*2
CG Omega	*3
CG Omega Bold	*3
CG Omega Italic	*3
CG Omega Bold Italic	*3
Coronet	*3
Clarendon Condensed	*3
Univers Medium	*2
Univers Bold	*2
Univers Medium Italic	*2
Univers Bold Italic	*2
Univers Medium Condensed	*3
Univers Bold Condensed	*3

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Univers Medium Condensed Italic	*3
Univers Bold Condensed Italic	*3
Antique Olive	*3
Antique Olive Bold	*3
Antique Olive Italic	*3
Garamond Antiqua	*3
Garamond Halbfett	*3
Garamond Kursiv	*3
Garamond Kursiv Halbfett	*3
Marigold	*3
Albertus Medium	*3
Albertus Extra Bold	*3
Arial	*3
Arial Bold	*3
Arial Italic	*3
Arial Bold Italic	*3
Times New Roman	*3
Times New Roman Bold	*3
Times New Roman Italic	*3
Times New Roman Bold Italic	*3
Helvetica	*3
Helvetica Bold	*3
Helvetica Oblique	*3
Helvetica Bold Oblique	*3
Helvetica Narrow	*3
Helvetica Narrow Bold	*3
Helvetica Narrow Oblique	*3

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Helvetica Narrow Bold Oblique	*3
Palatino Roman	*3
Palatino Bold	*3
Palatino Italic	*3
Palatino Bold Italic	*3
ITC Avant Garde Gothic Book	*3
ITC Avant Garde Gothic Demi	*3
ITC Avant Garde Gothic Book Oblique	*3
ITC Avant Garde Demi Oblique	*3
ITC Bookman Light	*3
ITC Bookman Demi	*3
ITC Bookman Light Italic	*3
ITC Bookman Demi Italic	*3
New Century Schoolbook Roman	*3
New Century Schoolbook Bold	*3
New Century Schoolbook Italic	*3
New Century Schoolbook Bold Italic	*3
Times Roman	*3
Times Bold	*3
Times Italic	*3
Times Bold Italic	*3
ITC Zapf Chancery Medium Italic	*3
Symbol	*4
Wingdings	*5
ITC Zapf Dingbats	*6
SymbolPS	*4

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Hebrew Scalable Font

Font Name	Symbol Set
Dorit	*7
Dorit Bold	*7
Naamit	*7
Naamit Bold	*7
Malka	*7
Malka Bold	*7
Malka Italic	*7

Arabic Scalable Font

Font Name	Symbol Set
Koufi	*8
Koufi Bold	*8
Naskh	*8
Naskh Bold	*8
Ryadh	*8
Ryadh Bold	*8

Bitmap Font

Font Name	Symbol Set
Line Printer	*9

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Font Name	Symbol Set
OCR A	*10
OCR B	*11
Code39 9.37cpi	*12
Code39 4.68cpi	*12
EAN/UPC	*13
EAN/UPC Bold	*13

Printing font samples

You can print samples of the fonts available in each mode by using the control panel's Information Menu. Follow these steps to print font samples.

1. Make sure that paper is loaded.
2. Make sure the LCD panel displays `Ready` or `Sleep`, then press the Enter button.
3. Press the ▼ Down button to select the font sample for the appropriate mode.
4. Press the Enter button to print the selected font sample sheet.

Adding More Fonts

You can add a wide variety of fonts to your computer. Most font packages include an installer for this purpose.

See your computer documentation for instructions on installing fonts.

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Selecting Fonts

Whenever possible select fonts in your application. See your software documentation for instructions.

If you are sending unformatted text to the printer directly from DOS or if you are using a simple software package that does not include font selection, you can select fonts using the printer's control panel menus when in the ESC/P 2, FX, or I239X emulation mode.

Downloading Fonts

Fonts that reside on your computer's hard disk can be downloaded, or transferred, to the printer so they can be printed. Downloaded fonts, also called soft fonts, remain in printer memory until you turn off the printer or otherwise reset it. If you plan on downloading many fonts, make sure your printer has sufficient memory.

Most font packages make it easy to manage fonts by providing their own installer. The installer gives you the option of having the fonts automatically downloaded whenever you start your computer or having fonts downloaded only when you need to print a particular font.

EPSON Font Manager (Windows Only)

EPSON Font Manager provides you with 131 software fonts.

System requirements

To use EPSON Font Manager, your computer system should meet the following requirements:

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Computer:	IBM PC series or IBM compatible with an 486 or higher CPU
Operating system:	Microsoft Windows Me, 98, XP, 2000, or Server 2003 Internet Explorer 4.0 or higher
Hard disk:	At least 15 MB of free space

Installing EPSON Font Manager

Follow the steps below to install EPSON Font Manager.

1. Make sure that the printer is off and that Windows is running on your computer.

2. Insert the printer software CD-ROM in the CD-ROM drive.

   Note:
   - ❏ *If the language selection window appears, select your country.*

   - ❏ *If the EPSON Installation Program screen does not appear automatically, double-click the My Computer icon, right-click the CD-ROM icon, click* OPEN *in the menu that appears, then double-click* Epsetup.exe*.*

3. Click Continue. When the software license agreement screen appears, read the statement then click Agree.

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4. In the dialog box that appears, click Local.

5. Click Custom.

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6. Select the EPSON Font Manager check box and click Install. Then follow the on-screen instructions.

7. When installation is complete, click OK.

EPSON Font Manager is now installed on your computer.

Symbol Sets

Introduction to Symbol Sets

Your printer can access a variety of symbol sets. Many of these symbol sets differ only in the international characters specific to each language.

Note:
Since most software handles fonts and symbols automatically, you will probably never need to adjust the printer's settings. However, if you are writing your own printer control programs, or if you are using older software that cannot control fonts, refer to the following sections for symbol set details.

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When you are considering which font to use, you should also consider which symbol set to combine with the font. Available symbol sets vary depending on which emulation mode you use and which font you choose.

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In the ESC/P 2 or FX Modes

Character Table	Available typefaces			
	OCR B	Courier	EPSON Roman EPSON Sans serif EPSON Prestige EPSON Script	Letter Gothic Arial Times New
PcUSA	available	available	available	available
PcMultilingual	not available	available	available	available
PcPortuguese	not available	available	available	available
PcCanFrench	not available	available	available	available
PcNordic	not available	available	available	available
PcE.Europe	not available	available	not available	available
PcTurk2	not available	available	not available	available
PcIcelandic	not available	available	not available	available
BpBRASCII	not available	available	not available	available
BpAbicomp	not available	available	not available	available
Roman-8	not available	available	available	available
PcEur858	available	available	available	available
ISO Latin1	not available	available	not available	available

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8859-15ISO	not available	available	available	available
PcSl437*	not available	available	not available	not available
PcTurk1*	not available	available	not available	not available
8859-9 ISO*	not available	available	not available	not available
Mazowia*	not available	available	not available	not available
CodeMJK*	not available	available	not available	not available
PcGk437*	not available	available	not available	not available
PcGk851*	not available	available	not available	not available
PcGk869*	not available	available	not available	not available
8859-7 ISO*	not available	available	not available	not available
PcCy855*	not available	available	not available	not available
PcCy866*	not available	available	not available	not available
Bulgarian*	not available	available	not available	not available
PcUkr866*	not available	available	not available	not available
Hebrew7*	not available	available	not available	not available
Hebrew8*	not available	available	not available	not available
PcHe862*	not available	available	not available	not available

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PcAr864*	not available	available	not available	not available
PcLit771*	not available	available	not available	not available
PcLit774*	not available	available	not available	not available
Estonia*	not available	available	not available	not available
ISO Latin 2*	not available	available	not available	not available
PcLat866*	not available	available	not available	not available
PcAr864Ara*	not available	available	not available	not available
PcAr720*	not available	available	not available	not available

* Available only in ESC/P2 mode.

Times New is a type face compatible with RomanT.

Letter Gothic is a type face compatible with OratorS.

Arial is a type face compatible with SansH.

International character sets

You can select one of the following international character sets using the ESC R command:

Character sets: USA, France, Germany, UK, Japan, Denmark1, Denmark2, Sweden, Italy, Spain1, Spain2, Norway, Latin America, Korea*, Legal*

* Available for ESC/P 2 emulation only

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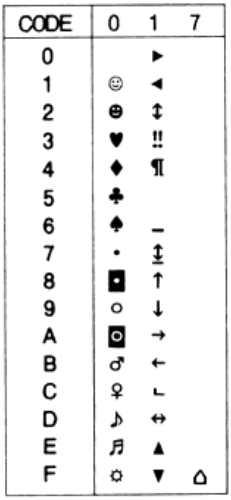
Characters available with the ESC (^ command

To print the characters in the table below, use the ESC (^ command.



CODE	0	1	7
0		▶	
1	☺	◀	
2	☻	↕	
3	♥	‼	
4	♦	¶	
5	♣		
6	♠	▁	
7	•	↨	
8	◘	↑	
9	○	↓	
A	◙	→	
B	♂	←	
C	♀	∟	
D	♪	↔	
E	♫	▲	
F	☼	▼	⌂

In the I239X Emulation Mode

The available symbol sets in the I239X mode are PcUSA, PcMultilingual, PcEur858, PcPortuguese, PcCanFrench, PcNordic. See "In the ESC/P 2 or FX Modes" on page 458.

The available fonts are EPSON Sans Serif, Courier, EPSON Prestige, EPSON Gothic, EPSON Presentor, EPSON Orator, and EPSON Script.

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Symbol Set Name	PCL Symbol Set Code	Font Classification					
		*1	*2	*3	*7	*8	*9
ISO 60: Danish/Norwegian	0D	O	O	O	-	-	-
ISO 15: Italian	0I	O	O	O	-	-	-
ISO 8859/1 Latin 1	0N	O	O	O	-	-	O
ISO 11: Swedis	0S	O	O	O	-	-	-
ISO 6: ASCII	0U	O	O	O	O	O	-
ISO 4: United Kingdom	1E	O	O	O	-	-	-
ISO 69: French	1F	O	O	O	-	-	-
ISO 29: German	1G	O	O	O	-	-	-
Legal	1U	O	O	O	-	-	O
ISO 8859/2 Latin 2	2N	O	O	O	-	-	O
ISO 17: Spanish	2S	O	O	O	-	-	-
Roman-9	4U	O	O	O	-	-	-
Ps Math	5M	O	O	O	O	O	-
ISO 8859/9 Latin 5	5N	O	O	O	-	-	O
Windows 3.1 Latin 5	5T	O	O	O	-	-	-
Microsoft Publishing	6J	O	O	O	-	-	-

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Ventura Math	6M	○	○	○	-	-	-
ISO 8859/10 Latin 6	6N	○	○	○	-	-	○
DeskTop	7J	○	○	○	-	-	-
Math-8	8M	○	○	○	○	○	-
Roman-8	8U	○	○	○	-	-	○
Windows 3.1 Latin 2	9E	○	○	○	-	-	-
Pc1004	9J	○	○	○	-	-	-
ISO 8859/15 Latin 9	9N	○	○	○	-	-	○
PC-8 Turkish	9T	○	○	○	-	-	-
Windows 3.0 Latin 1	9U	○	○	○	-	-	-
PS Text	10J	○	○	○	-	-	-
PC-8, Code Page 437	10U	○	○	○	-	-	○
PC-8, D/N, Danish/Norwegian	11U	○	○	○	-	-	○
MC Text	12J	○	○	○	-	-	-
PC-850, Multilingual	12U	○	○	○	-	-	○
Ventura International	13J	○	○	○	-	-	-
PcEur858	13U	○	○	○	-	-	-
Ventura US	14J	○	○	○	-	-	-
Pi Font	15U	○	○	○	-	-	-
PC852, Latin 2	17U	○	○	○	-	-	-
Windows Baltic	19L	○	○	○	-	-	-

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Windows 3.1 Latin/Arabic	19U	O	O	O	-	-	-
PC-755	26U	O	O	O	-	-	-
PC-866, Cyrillic	3R	O	O	-	-	-	-
Greek8	8G	O	O	-	-	-	-
Windows Greek	9G	O	O	-	-	-	-
Windows Cyrillic	9R	O	O	-	-	-	-
PC-851, Greek	10G	O	O	-	-	-	-
ISO 8859/5 Cyrillic	10N	O	O	-	-	-	O
PC-8, Greek	12G	O	O	-	-	-	-
ISO 8859/7 Greek	12N	O	O	-	-	-	-
PC-866 UKR	14R	O	O	-	-	-	-
Hebrew7	0H	O	-	-	O	-	-
ISO 8859/8 Hebrew	7H	O	-	-	O	-	-
Hebrew8	8H	O	-	-	O	-	-
PC-862, Hebrew	15H	O	-	-	O	-	-
Arabic8	8V	-	-	-	-	O	-
HPWARA	9V	-	-	-	-	O	-
PC-864, Arabic	10V	-	-	-	-	O	-

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Symbol Set Name	PCL Symbol Set Code	Font Classification						
		*4	*5	*6	*10	*11	*12	*13
Symbol	19M	○	-	-	-	-	-	-
Wingdings	579L	-	○	-	-	-	-	-
ZapfDigbats	14L	-	-	○	-	-	-	-
OCR A	0O	-	-	-	○	-	-	-
OCR B	1O	-	-	-	-	○	-	-
OCR B Extension	3Q	-	-	-	-	○	-	-
Code3-9	0Y	-	-	-	-	-	○	-
EAN/UPC	8Y	-	-	-	-	-	-	○

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